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# LIST OF SPECIES.


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# LIST OF BRITISH RADIATA.

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## Class I. DITREMATA.

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#### 1. CIDARIS.

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Cidarites, *Lamk.* 1816; *Blainv. Dict. Sci. Nat.* lx. 214; *Agassiz, Prod. Ann. Nat. Hist.* i. 305.

1. CIDARIS papillata.

Echinus cidaris, *Linn. F. Suec.* 513; *Nilsson, Z. Scand.* 11.
E. cidaris? var. *a*, *Sow. Brit. Misc.* t. 44.
Cidaris papillata, *Leske*; *Klein, Echid.* 125. t. 7. *a.* & t. 39. f. 2; *Fleming, Brit. Anim.* 477? *Forbes, Brit. Starf.* 146, fig. bad; *Desmoul.*; *Duben and Koren, K. Vet. Akad. Hand.* 1844, 255. t. 9. f. 25–30, life.
C. Hystrix, *Sars, Besk.* 40; not *Lamk.*
C. borealis, *Duben and Koren, Ofr. K. Vet. Akad. Forh.* 1844, 114.
Piper, *Zetlanders.*
Inhab. North Sea.

### Fam. 2. ECHINIDÆ.

Echinus, *Lamk.* 1801, 1816.
Echinus, sp. *Linn.* &c.
Cidarites part., *Agassiz, Prod. Ann. Nat. Hist.* i. 304.
Echinidæ, *Gray, Ann. Phil.* x. 1825; *Synop. Brit. Mus.* 1842, 115; *Austen, Ann. and Mag. N. H.* x. 111. 1842.

## 1. Echinus.

Echinus, *Lamk.* 1801; *Gray, Ann. Phil.* x. 1825; *Agassiz, Prod. Ann. Nat. Hist.* i. 307; *Blainv. Dict. Sci. Nat.* lx. 207; *Fleming, B.A.* 478.
Echinus, sp. *Linn.*; *Lamk.* 1816.
Echinus *a*, *Flem. Brit. Anim.* 478; *Duben and Koren, Z. B.* 264.

### 1. Echinus Flemingii.

Echinus Flemingii, *Ball*; *Forbes, Brit. Starf.* 164. fig. (dry); *Agassiz, l. c.* 111; *Duben and Koren, Zool. Bidrag.* 267. t. 9. f. 31, 32 (alive).
E. miliaris, *Flem. B. A.* 478; *Wern. Mem.* ii. 246; not *Gmelin.*
*a*, *b*. Adult, Falmouth. W. P. Cocks, Esq.

### 2. Echinus esculentus.

E. marinus, *List. An.* ii. 169. t. 3. fig. 18; *Borlase, Cornw.* 278. t. 28. fig. 27.
Echinus esculentus, *Linn. Mus. L. U.* 705; *F. Suec. and S. N.*; *Pennant, Brit. Zool.* iv. 67. fig. 74; *Flem. B. A.* 478; *Duben and Koren, K. Vet. Akad. Hand.* 1844, 264; *Lamk. Syst.* (1801) 346.
E. sphæra, *Müller, Prod.* 235; *Gmelin*, 3169; *Forbes, Brit. St.* 149.
"E. globiformis, *Lamk. Hist.* ii. 44;" fide *Agassiz.*
"E. aurantiacus, *Blainv.*?" fide *Agassiz.*
E. melo, *Lamk. Hist.* ii. 44.
*a*. Frith of Forth. Presented by E. Forbes, Esq.
*b*, *c*, *d*. Frith of Forth. Presented by W. E. Leach, M.D.
*e*. Falmouth. Presented by W. P. Cocks, Esq.
*f*, *g*, *h*. Series of half-grown and young. Frith of Forth.
*i*, *j*, *k*. Series of young. Whiting Bay, Isle of Arran. Rev. D. Landsborough.
*l*, *m*, *n*. With the spines. Ilfracombe. Presented by J. E. Gray, Esq.

### 3. Echinus miliaris.

Cidaris miliaris saxatilis, *Leske*, 82. t. 2. figs. *a*, *b*, *c*, *d*. t. 38. figs. 2, 3; cop. *E. M.* t. 133. figs. 1, 2. *a*, *b*.
Echinus miliaris, *Gmelin, S. N.*; *Lamk. H.* ii. 49, ed. 2. iii. 367; *Blainv. Man. Act.* 227; *Forbes, Brit. Starf.* 161. fig.
E. saxatilis, *Müller, Prod.* n. 2847.
*a*. Adult. Isle of Man. Presented by E. Forbes, Esq.
*b*, *c*, *d*. Young. Isle of Man. Presented by E. Forbes, Esq.

4. ECHINUS lividus.

Echinus lividus, *Lamk. H.* ii. 50, ed. 2. 367; *Blainv. Man. Act.* 228; *Bennett, Linn. Trans.* xv.; *Forbes, Brit. Starf.* 167. fig.
E. lithophagus, *Leach, Wern. Mem.*; *Tilloch, Phil. Mag.* xxxix. 100.
*a.* Small, in holes in Nullipora. Cork. John Humphreys, Esq.
*b.* Cork. Presented by A. G. Melville, M.D.

### 2. ECHINOMETRA.

Echinometra, *Gray, Ann. Phil.* x. 1825, 4; *Agassiz, Ann. Nat. Hist.* i. 306; *Blainv. Dict. Sc. Nat.* lx. 205, 1830.
Echinometra, sp. *Breyn. Echin.* 1732; *Van Phelsum.*
Echinus, sp. *Linn.*; *Lamk.* 1816.
Echinus *β*, *Flem. Brit. Anim.* 479; *Duben and Koren*, 276.

1. ECHINOMETRA Dröbachensis.

Echinus Dröbachensis, *Müller, Prod.* 235.
Echinus neglectus, *Lamk. H.* ii. 49, edit. 2. iii. 366; *E. M.* t. 133. fig. 3. *a*, *b*; *Forbes, Brit. Starf.* 172. fig.; *Agassiz*, iv.; *Duben and Koren, Zool. Bidrag.* 277.
E. lividus, var. *Blainv. Man. Act.* 226.
E. saxatilis, *Nilsson, Z. Scand.* 9; not *Müller* nor *Linn.*
E. esculentus, *Sv. Zool.* viii. t. 48. fig. *a* (good), *b*; *Oersd. Regio Mar.* 70.
E. subangularis, *Flem. Brit. Anim.* 479; *Klein*, t. 2. fig. F. t. 3. figs. *a*, *b*.
*a.* Shetland. Presented by E. Forbes, Esq.
*b.* In spirits. Presented by A. G. Melville, M.D.

## Fam. 3. SCUTELLIDÆ.

Scutellidæ, *Gray, Ann. Phil.* x. 1825, 5; *Synop. Brit. Mus.* 1840; 1842, 115.
Clypeastres, *Agassiz, Prod. Ann. Nat. Hist.* i. 302.
Echin. paracentrostomes dentes, *Blainv. Dict. Sc. Nat.* lx. 195.

### 1. ECHINARACHNIUS.

Echinarachnius, *Leske*; *Klein, Echid.*; *Fleming, Brit. An.* 479; *Gray, Ann. Phil.* x. 1825, 6; *Agassiz, Prod. Ann. N. H.* i. 304
Scutella, sp. *Lamk. Hist.* ii. 11, 1816.
Echinodiscus, *Blainv. Dict. Sc. Nat.* lx. 199.
Lagena, sp. *Blainv. Dict. Sci. Nat.* lx. 199.

1. ECHINARACHNIUS placenta.

Echinarachnius, *Leske*; *Klein*, t. 20. fig. *a*, *b*; cop. *E. M.* t. 143. figs. 11, 12.
Echinarachnius placenta, *Flem. Brit. An.* 479; *Gray, Ann. Phil.* 6; *Agassiz, Prod.*; *Forbes, Brit. Starf.* 178. figs. 178, 181.
Echinus placenta, *Gmelin, S. N.*
Scutella placenta, *Lamk. H.* iii. 11, edit. 2. iii. 283; *Desmoul. Echid.* 228.
Echinodiscus placenta, *Blainv. Dic. S. N.* lx. 199; *Man. Act.* 218.
Inhab. Zetland.

2. ECHINOCYAMUS.

Echinocyamus, *Leske*; *Klein, Echid.*; *Gray, Ann. Phil.* 1825, 6; *Fleming, Brit. An.* 481, 1828; *Blainv. Dict. S. N.* lx. 195.
Fibularia, *Lamk. Hist.* 1816; *Agassiz, Prod. Ann. N. H.* i. 303.
Echinoneus, sp. *Goldfuss.*

1. ECHINOCYAMUS pusillus.

Spatangus pusillus, *Müller, Zool. Dan.* 18. t. 91. figs. 5, 6.
Echinocyamus pusillus, *Flem. Brit. An.* 481; *Forbes, Brit. Starf.* 175. fig.; *Gray, Ann. Phil.* x.; *Agassiz, Monog. Scut.* t. 27. fig. 1–8.
Echinus ovalis depressus, *Walker, Test. M. R.* 25. t. 3. fig. 88.
Ovulum marinum, *Borlase, Cornw.* t. 28. fig. 26.
Echinus perexiguus, *Pet. Gaz.* t. 31. fig. 10.
Echinus minutus, *Gmelin, S. N.* 3194.
Echinocyamus minutus, *Blainv. M. Act.* 214.
Fibularia ovulum, *Lamk.*; *Blainv. Dict. Sc. Nat.* lx. 193.
F. tarentina, *Lamk.*
F. angulosa, *Deslongchamps.*
*a*, *b*, *c*, *d*. A series. Kent.
*e*, *f*. "*Fibularia pusilla.*" Berwick on Tweed. Presented by G. Johnston, M.D.
*g*, *h*. With spine, green. Arran. Rev. D. Landsborough.

Fam. 4. SPATANGIDÆ.

Spatangidæ, *Gray, Ann. Phil.* x. 1825, 9.
Spatangi, *Agassiz, Ann. Nat. Hist.* i. 300, 1838.
Spatangus and Anachitis, *Lamk. Syst.* i. 347.
Echinides excentrostomes, *Blainv. Dict. Sc. Nat.* lx. 185, 1830.

1. SPATANGUS.

Spatangus, *Klein*; *Agassiz and Desor, Ann. Sc. Nat.* 1847; *Gray, Ann. Phil.* x. 1825, 8; *Agassiz, Ann. Nat. Hist.* i. 301 (1838).
Spatangus *b*, *Fleming, Brit. An.* 481.
Spatangus *c*, *Blainv. Dict. Sc. Nat.* lx. 185.
Echinospatangus, *Breyn.*

1. SPATANGUS purpureus.

Spatangus purpureus, *Müller, Prod.* ii. 2850, *Zool. Dan.* t. 6; *Leske, Klein*, 235. t. 43. figs. 3, 5, cop. *E. M.* t. 157. figs. 1, 4; *Lamk. H.* iii. 29, edit. 2. iii. 324; *Flem. Brit. Anim.* 489; *Gray, Ann. Phil.* x. 1825; *Blainv. M. Act.* 202. t. 14. figs. 1, 2, 3; *Forbes, Brit. Starf.* 182. figs. 182, 186; *Duben and Koren, Zool. Bidrag.* 285. 47; *Agassiz and Desor, Ann. Sc. Nat.* 1847, 6; *Blainv. Dict. Sc. Nat.* lx. 184.

*a, b.* Adult. Coast of England.

*c.* Half-grown. Irish Sea. Presented by E. Forbes, Esq.

2. ECHINOCARDIUM.

Amphidetus, *Agassiz, Ann. Nat. Hist.* i. 301, 1838; *Agassiz and Desor, Ann. Sc. Nat.* 11, 1847.

Amphidotus, *Forbes, Brit. Starf.* 190.

Echinocardium, *Van Phelsum?*; *Gray, Ann. Phil.* x. 1825.

Spatangus *a*, *Fleming, Brit. An.* 480, 1829.

Spatangus *E*, *Blainv. Dict. Sc. Nat.* lx. 185.

1. ECHINOCARDIUM cordatus.

Echinus Spatangus, *Merret*, 192; *Borlase, Cornw.* 278. t. 28. fig. 28; *Lister, App.* t. 1. fig. 13.

Echinus cordatus, *Penn. Brit. Zool.* iv. 69. t. 34. fig. 75.

Spatangus cordatus, *Flem. Brit. An.* 480.

Amphidotus cordatus, *Forbes, Brit. Starf.* 190. fig.

Amphidetus cordatus, *Agassiz*; *Duben and Koren, Zool. Bidrag.* 285; *Agassiz and Desor, Ann. Sc. Nat.* 1847, 11.

Spatangus pusillus, *Leske*; *Klein*, 230. t. 24. fig. *c, d, e.* t. 38. fig. 5 (not *Müller*).

Echinocardium pusillum, *Gray, Ann. Phil.* x. 1825.

Amphidetus pusillus, *Agassiz.*

Echinus pusillus, *Gmelin, S. N.* 3193.

Sp. lacunosus, *Müller, Zool. Dan.* i. 19, 20 (not *Linn.*).

Sp. flavescens, *Abildg. Zool. Dan.* t. 91 (not *Müller, Prod.*); *Oersd. Reg. Mar.* 81.

Sp. arcuarius, *Lamk. H.* iii. 31, edit. 2. iii. 328; *Blainv. M. Act.* 201; *Desmoul.*; *Gold. Pet. Germ.* t. 48. fig. 1.

Amphidetus Goldfussii, *Agassiz.*

*a, b.* Adult and young, with spines. Coast of England. Presented by Mrs. Mauger.

*c, d, e.* Adult, without spines. Melton sands. G. Montague, Esq.

2. ECHINOCARDIUM ovatum.

Spatangus ovatus, *Leske*; *Klein*, 252. t. 49. figs. 12, 13; *Fleming, Brit. An.* 480; *Blainv. Zooph.*; *Desmoul.*; *Agassiz* (not *Lamk.* nor *Blainv.*).

Amphidetus ovatus, *Agassiz*; *Duben and Koren, Zool. Bidrag.* 283. t. 10. fig. 50; *Agassiz and Desor, Ann. Sc. Nat.* 1847, 12.
Spatangus flavescens, *Müller, Prod.* 235, *Zool. Dan.* i. 19, 20. (not *Abildg. Zool. Dan.*); *Sars, Besk.* 40, 46.
Amphidotus roseus, *Forbes, Brit. Starf.* 194. fig. 194, 196.
Amphidetus ovatus, var. minor, *Agassiz and Desor, Ann. Sc. Nat.* 1847, 12; *Seba,* iii. t. 15. figs. 27, 29; cop. *E. M.* t. 159. figs. 5, 6.
*a, b.* Dry. Coast of Northumberland. Presented by A. G. Melville, M.D.

3. BRISSIOPSIS.

Brissiopsis, *Agassiz*; *Agassiz and Desor, Ann. Sc. Nat.* 1847, 14.
Brissus, sp. *E. Forbes, Brit. Starf.* 187.
Tripylus, sp. *Philippi, Erichs. Arch.* 1846.

1. BRISSIOPSIS lyrifera.

Brissus lyrifer, *Forbes, Brit. Starf.* 187. fig. 187; *Duben and Koren, Zool. Bidrag.* 280. t. 10. fig. 46.
Brissiopsis lyrifera, *Agassiz and Desor, Ann. Sc. Nat.* 1847, 15.
*a.* Adult: Rothsay Bay, Isle of Man. Presented by Edward Forbes, Esq.
*b.* In spirits. Shetland. Presented by A. G. Melville, M.D.

## Order II. HOLOTHURIDA.

Fistulides, *Lamk. Syst.* 345, 351; *Agassiz, Prod. Ann. Nat. Hist.* i. 297.
Fistulida, *Macleay, Horæ Ent.* ii. 116; *Gray, Ann. Phil.* 182.
Fistulidæ, *Fleming, Brit. Anim.* 483, 1828.
Cirrhi-Vermigrada, *Forbes, Brit. Starf.* 15, 1841.
Ascidiastella, *Austen, Ann. and Mag. N. H.* x. 108, 1842.

### Fam. 1. HOLOTHURIDÆ.

Holothuridæ, *Gray, Syn. Brit. Mus.* 1842, 118.

1. THYONE.

Thyone, *Oken, Lehrb. Nat.* 1815; *Agassiz, Prod. Ann. Nat. Hist.* i. 298.
Mulleria, sp. *Fleming, Brit. Anim.* 1828 (not *Jaeger* nor *Agassiz*).
Phyllophorus, *Grube.*

1. THYONE fusus.

Holothuria fusus, *Müller, Zool. Dan.* t. 10. figs. 5, 6 (not *Chiaje*).
Synapta? fusus, *Jaeger.*

Thyone fusus, *Agassiz, Prod. Ann. Nat. Hist.* i. 298; *Duben and Koren, Zool. Bidr.* 308. t. 11. fig. 52. t. 5. figs. 42–48; *Koren, Nyt. Mag. Naturv.* iv. 203. t. 1 (anat.).
Mulleria fusus, *Flem. Brit. Anim.* 484.
Holothuria papillosa, *Abild. Zool. Dan.* t. 108. fig. 3, cop. *E. M.* t. 86. figs. 5, 6; *Blainv. Man. Act.* 193. t. 13. fig. 2.
Synapta? papillosa, *Jaeger, Hol.*
Thyone papillosa, *Oken, Lehrb.*; *Agassiz, Prod. Ann. Nat. Hist.* i. 298; *Forbes, Brit. Starf.* 233. figs. 233, 235.
Mulleria papillosa, *Johnst. Mag. Nat. Hist.* vii. 584. fig. 66.
Holothuria penicillus, *Müller, Zool. Dan.* t. 10. fig. 4 (the calcareous ring of the mouth) (not *Chiaje*).
Pentacta penicillus, *Jaeger.*
Inhab. Berwick Bay. Ireland.

2. THYONE Raphanus.

Thyone Raphanus, *Duben and Koren, Zool. Bidr.* 311. n. 56. t. 11. fig. 58. t. 5. figs. 49–55; *Thomp. Ann. Nat. Hist.* 1847, xx. 176.
Inhab. Ireland, *Thompson.*

### 2. HOLOTHURIA.

Holothuria, sp. *Linn. S. N.*; *Cuvier*; *Jaeger.*
Holothuria, *Lamk. Sys.* 351, 1801; *Blainv.*; *Duben and Koren, Zool. Bidr.* 318.
Fistularia, sp. *Lamk. Hist.* ii. 1816.
Slelenota, *Brandt, Prod.*

1. HOLOTHURIA nigra.

Nigger or Cotton Spinner, *Couch, Ann. & Mag. N. H.* xv. 171. t. 14.
Inhab. Cornwall.

## Fam. 2. CUVIERIADÆ.

Cuvieriadæ, *Gray, Syn. Brit. Mus.* 1842, 118.

### 1. PSOLUS.

Psolus, *Oken, Lehrb. Nat.* 1815.
P. Phantopus, *Agassiz, Prod. Ann. Nat. Hist.* i. 298, 1838; *Jaeger, Hol.*
Cuvieria, sp. *Flem. Brit. Anim.* 492; *Duben and Koren,* 312; *Blainv. Dict. Sc. Nat.* lx.

1. PSOLUS phantopus.

Holothuria phantopus, *Strusfenfeldt, Act. Holm.* 1765, 256. t. 10; *Linn. S. N.* 1089; *Müller, Prod.* n. 2803; *Zool. Dan.* t. 112. figs. 1, 2, 3, cop. *E. M.* t. 86. figs. 1, 3; *Lamk. Hist.* iii. 73, edit. 2. iii. 440.

Cuvieria phantopus, *Flem. Brit. Anim.* 493; *Johnst. Mag. Nat. Hist.* ix. 472. fig. 86; *Blainv. Man. Act.*; *Duben and Koren, Zool. Bidr.* 313. n. 57.

Psolus phantopus, *Jaeger, Holoth.* 2, *Brandt, Prod.*; *Agassiz, Prod. Ann. Nat. Hist.* i. 299; *Forbes, Brit. Starf.* 203. fig.

Ascidia rustica, *Penn. Brit. Zool.* iv. 48. t. 33. fig. 35.

*a.* In spirits. North Sea.

*b, c.* Dry, stuffed. Northumberland.

2. PSOLINUS.

Psolinus, *E. Forbes and Goodsir, Brit. Starf.* 217.

1. PSOLINUS brevis.

Holothuria brevis, *Forbes and Goodsir, Athenæum*, n. 618.

Psolinus brevis, *Forbes. Brit. Starf.* 207. fig.

Inhab. Shetland.

Fam. 3. PENTACTIDÆ.

Pentactidæ, *Gray, Syn. Brit. Mus.* 1842, 118.

1. PENTACTA.

Pentacta, *Goldfuss*; *Agassiz, Prod. Ann. Nat. Hist.* i. 299.

Cucumaria, *Cuvier*; *Jaeger*; *Forbes, Brit. Starf.* 227; *Blainv.*

Dactylota, *Brandt.*

Ochnus, *Forbes, Brit. Starf.* 229.

Holothuria, *Flem. Brit. Anim.* 482.

1. PENTACTA frondosa.

Holothuria frondosa, *Gunner, Act. Stock.* 1767, t. 4. figs. 1, 2, cop. *E. M.* t. 85. figs. 7, 8; *O. Fab. F. Græn.* 353; *Müller, Prod.* n. 2802; *Lamk. Hist.* iii. 73, edit. 2. iii. 439.

Cuvieria frondosa, *Blainv.*

Pentacta frondosa, *Jaeger, Hol.* 12; *Agassiz, Prod. Ann. Nat. Hist.* i. 299.

Dactylota frondosa, *Brandt.*

Cucumaria frondosa, *Forbes, Brit. Starf.* 209. fig.; *Duben and Koren, Zool. Bidr.* 293. n. 48. t. 4. fig. 1.

Holothuria pentacta, *Abild. Zool. Dan.* t. 108. figs. 1, 2. t. 124; *Vahl. Zool. Dan.* t. 123, 127; *Sars, Besk.* 40.

Holothuria grandis, *Forbes and Goodsir, Athenæum*, n. 618; not *Brandt.*

Hol. fucicola, *Forbes and Goodsir, Athenæum*, n. 618.
Cucumaria fucicola, *Forbes, Brit. Starf.* 227. fig. young.
? Cucumaria pentacta, *Forbes, Brit. Starf.* 213. fig.
? Holothuria brunneus, *Forbes MSS.*; *Thomp. Ann. Nat. H.* 1840.
? Ochnus brunneus, *Forbes, Brit. Starf.* 229. fig.
*a, b.* In spirits. Shetland. Presented by A. G. Melville, M.D.

2. PENTACTA fusiformis.

Holothuria fusiformis, *Forbes and Goodsir, Athenæum*, n. 618.
Cucumaria fusiformis, *Forbes, Brit. Starf.* 219. fig.
Inhab. Shetland.

3. PENTACTA Hyndmanni.

Holothuria Hyndmanni, *Thompson, Ann. & Mag. Nat. Hist.* 1840, v. 100.
Cucumaria Hyndmanni, *Forbes, Brit. Starf.* 225. fig. ("bad," *Duben*); *Duben and Koren, Zool. Bidr.* 299. 51. t. 11. fig. 56. t. 4. figs. 8–14.
*a.* In spirits. Presented by A. G. Melville, M.D.

4. PENTACTA lactea.

Holothuria lactea, *Forbes and Goodsir, Athenæum*, n. 618.
Ochnus lacteus, *Forbes, Brit. Starf.* 231. fig. ("bad," *Duben*).
Cucumaria lactea, *Duben and Koren, Zool. Bidr.* 297. 50. t. 11. fig. 55. t. 4. figs. 3–7.
*a.* In spirits. Presented by A. G. Melville, M.D.

5. PENTACTA pentactes.

Holothuria pentactes, *Müller, Prod.* 2806; *Zool. Dan.* t. 31. fig. 8; *Penn. Brit. Zool.* iv. 51. t. 26. fig. 41; *Flem. Brit. Anim.* 482; *Lam. Hist.* iii. 73, 2nd edit. iii. 441.
Pentacta pentactes, *Jaeger, Hol.* 12; *Agassiz, Prod. Ann. Nat. Hist.* i.
Cucumaria pentactes, *Forbes, Brit. Starf.* 213. fig. 9.
Var. ? Hol. dicquemarii, *Cuvier*; *Forbes, loc. cit.* 215.
Hydra corallifera, *Gaertner, Phil. Trans.* 1761, 75. t. 1, *b.* fig. 3, *a, b.*
Hol. Gaertneri, *Blainv. Man. Act.* 195.
Holothuria communis, *Leach, MSS. Brit. Mus.*
*a, b, c. d.* In spirits. "Hol. communis, *Leach.*" South coast of Devon. Mus. Leach.
*e, f.* In spirits. "Hol. arcuata," *Leach.* Devon. G. Montague, Esq. Mus. Leach.
*g.* Small, in spirits. Torquay. J. R. Griffith, Esq.
*h, i, j.* Small, in spirits. Holothuria viridis, *Leach, MSS.* S. coast of Devon. G. Montague, Esq. May be a species?.

6. PENTACTA Montagui.

Holothuria Montagui, *Flem. Brit. Anim.* 483; *Leach*, Brit. Mus.
H. pentactes, var., *Mont. Linn. Trans.* ix. 112. t. 7. fig. 4; Forbes, *Brit. Starf.* 215. fig.
*a.* Melton sands. G. Montague, Esq. Mus. Leach.
*b.* Hol. decollata, *Leach*. S. Devon. G. Montague, Esq. Mus. Leach.

7. PENTACTA Neillii.

Holothuria Neillii, *Flem. Brit. Anim.* 483.
Hol. pentactes, var. *Forbes, Brit. Starf.* 228.
Hol. Scotica, *Leach, Brit. Mus.*
6 *a.* In spirits. Frith of Forth. P. Neill, Esq. Mus. Leach.

8. PENTACTA dissimilis.

Holothuria dissimilis, *Flem. Brit. Anim.* 483.
Hol. pentactes, var. *Forbes, Brit. Starf.* 228.
Inhab. Leith, *Coldstream.*

## 2. THYRONIDIUM.

Thyronidium, *Duben and Koren, Zool. Bidr.* 1844.
Pentacta, sp. *Jaeger; Agassiz, Prod. Ann. Nat. Hist.* 299.
Dactylota, sp. *Brandt.*
Cucumaria and Thyone, sp., *Forbes, Brit. Starf.*
Holothuria, sp. *Mont.*; *Flem. Brit. Anim.* 483.

1. THYRONIDIUM pellucidum.

Holothuria pellucida, *Vahl, Zool. Dan.* t. 135 ("bad," *Duben*); *Flem. Brit. Anim.* 483; *Forbes and Goodsir, Athenæum*, n. 618.
Pentacta pellucida, *Jaeger; Agassiz, Prod. Ann. Nat. Hist.* i. 299.
Dactylota pellucida, *Brandt.*
Thyronidium pellucidum, *Duben and Koren, Zool. Bidr.* 303. t. 11. fig. 57. t. 4. figs. 15, 17.
Cucumaria hyalina, *Forbes, B. Starf.* 221. fig. ("good," *Duben*).
Pentacta pentactes, *Oersd. loc. cit.* 74 (not *Linnæus*).
Inhab. Shetland, *Fleming.*

2. THYRONIDIUM Drummondi.

Holothuria Drummondi, *Thomp. Ann. Nat. Hist.* 1840, v. 100.
Cucumaria Drummondi, *Forbes, B. Starf.* 223. fig.
Cucumaria communis, *Forbes and Goodsir*; *Forbes, Brit. Starf.* 217. fig.
Thyronidium commune, *Duben and Koren, Zool. Bidr.* 305. t. 11. fig. 51. t. 4. figs. 18–23.

Thyone Portlockii, *Forbes, Brit. Starf.* 238.
? Hol. fusus, *Oersd. loc. cit.* 74?.
? *a, b.* In spirits. "Holothuria verrucata," *Leach, MSS. B.M.* S. Devon and Falmouth. J. Cranch, Esq. Mus. Leach.

Fam. 4. SYNAPTIDÆ.

Synaptidæ, *Gray, Syn. Brit. Mus.* 1842, 118.

1. SYNAPTA.

Synapta, *Eschscholtz, Atlas,* 1833; *Agassiz, Prod. Ann. Nat. Hist.* i. 298.
Fistularia, sp. *Blainv. Dict. Sc. Nat.* lx. 1830 (not *Lamk.* 1816).
Tiedemannia, *Leuckart.*
Holothuria D, *Blainv. Dict. Sc. Nat.* lx. 1830.
Pentacta, sp. *Jaeger.*
Dactylota, sp. *Brandt.*
Mulleria, sp. *Flem. Brit. Anim.* 484, 1828.
Chirodota, *Forbes, Brit. Starf.* 239.

1. SYNAPTA inherens.

Holothuria inhærens, *Müller, Zool. Dan.* t. 31. figs. 1, 7; *Sars, Besk.* 40.
Cucumaria inherens, *Cuvier.*
Pentacta inherens, *Jaeger.*
Dactylota inherens, *Brandt.*
Synapta inherens, *Agassiz, Prod. Ann. Nat. Hist.* i. 298; *Duben and Koren, Zool. Bidr.* 322. t. 5. figs. 56–62.
Holothuria digitata, *Mont. Linn. Trans.* xi. 22. t. 4. fig. 6; *Blainv. Man. Actinol.* 194.
Fistularia digitata, *Lamk. Hist.* iii. 76, 2nd ed. iii. 448.
Mulleria digitata, *Flem. Brit. Anim.* 484.
Chirodota digitata, *Forbes, Brit. Starf.* 239. fig.
Synapta Duvernæa, *Quatrefages, Ann. Sc. Nat.* xvii. (1842)?.
*a, b.* In spirits. Mus. Leach.
*c.* Fragment of body, in spirits. S. Devon. G. Montague, Esq. Mus. Leach.
*d.* Fragments, in spirits. "Jemania Cranchiana," *Leach, MSS. Brit. Mus.* South Devon. J. Cranch, Esq.
*e.* Fragment of head. "Jemania Montagui," *Leach, MSS. Brit. Mus.* S. Devon. G. Montague, Esq.

2. SYNAPTA Henslowana.

Jemania Henslowana, *Leach, MSS. Brit. Mus.* 1819.
*a.* In spirits. Aberystwith. Rev. John Henslow. May be the young of the preceding.

Fam. 5. SIPUNCULIDÆ.

Sipunculidæ, *Gray, Spic. Zool.* 1828; *Syn. Brit. Mus.* 1840; 1842, 118.
Vermigrada, *Forbes, Brit. Starf.* 15, 1841.
Vermistella, *Austen, Ann. & Mag. N. H.* x. 112, 1842.

1. SIPUNCULUS.

Sipunculus, *Linn.*; *Lamk. Syst.* 352; *Leuckart*; *Flem. Brit. Anim.* 491.
Syrinx, *Bohadsch*; *Forbes, Brit. Starf.* 245.

1. SIPUNCULUS nudus.

Syrinx, *Bohadsch, Ann. Mar.* 93. t. 7. figs. 6, 7.
Sipunculus nudus, *Linn. S. N.* 12th edit. 1078; *Gmelin, S. N.* 3094?; *Flem. Brit. Anim.* 491; *Gray, Spic. Zool.* 8; *Lamk. Hist.* 2nd edit. ii. 469; *Leuckart, Breves Animal. Desc.* 20. t. 1. fig. 3.
Syrinx nudus, *Forbes, Brit. Starf.* 245. fig.
Sip. balanophorus, *Chiaje, Mem.* i. t. 22. fig. 1.
Syrinx tessellatus, *Rafinesque, Précis*, 82.
Sipunculus reticulatus, *Martin, Obs. M. Worms*, 1786, 6. n. 3. t. 1. fig. 3.
*a.* In spirits.

2. SIPUNCULUS papillosus.

Sipunculus papillosus, *Thomp. Ann. Nat. Hist.* v. 101 (1840).
Syrinx papillosus, *Forbes, Brit. Starf.* 247. fig.
Inhab. Clare, Ireland.

3. SIPUNCULUS macrorhynchopterus.

Vermis macrorhynchopterus, *Rondel, Zooph.* 110.
Siphunculus nudus (Naked tube Worm), *Penn. Brit. Zool.* iv. 36. t. 20. fig. 10.
Inhab. ——.

4. SIPUNCULUS Harveii.

Syrinx Harveii, *Forbes, Brit. Starf.* 249. fig.
Inhab. Devonshire.

5. SIPUNCULUS Strombi.

Sipunculus Strombi, *Mont, Linn. Trans.* vii. 74; *Flem. Brit. An.* 491; *Gray, Spic. Zool.* 8. t. 6. fig. 1.
? S. clavatus, *Blainv. Dict. Sc. Nat.*
Sipunculus Dentalii, *Gray, Spic. Zool.* 8. t.
S. Bernhardus, *Forbes, Brit. Starf.* 251. fig.
*a, b.* In spirits. Devonshire.

6. SIPUNCULUS Johnstoni.

Siphunculus Johnstonii, *Forbes, Brit. Starf.* 254. fig.
Inhab. Berwick, *Johnston.*

7. SIPUNCULUS saccatus.

Sipunculus nudus, *Martin, Obs. Mar. Anim.* 1786, 4. n. 2. t. 1. fig. 2. *a, b, c.*
S. saccatus, *Flem. Brit. Anim.* 491; *Mont. Linn. Trans.* vii. 75.
Inhab. Teignmouth, *Martin.*

8. SIPUNCULUS tenuicinctus.

Syrinx tenuicinctus, *M'Coy, Ann. & Mag. N. H.* xv. 273. t. 16. f. 4.
Inhab. Ireland.

9. SIPUNCULUS Forbesii.

Syrinx Forbesii, *M'Coy, Ann. & Mag. N. H.* xv. 273. t. 16. fig. 3.
Inhab. Ireland.

10. SIPUNCULUS granulosa.

Syrinx granulosa, *M'Coy, Ann. & Mag. N. H.* xv. 272. t. 16. f. 2.
Inhab. Roundstone Bay.

## 2. PHASCOLOSOMA.

Phascolosoma, *Leuckart, Breves Anim. Desc.*

1. PHASCOLOSOMA Pallasii.

Sipunculus, *Pallas, Misc. Zool.* t. 4. figs. 7, 8, 9; cop. *Forbes, Brit. Starf.* 255. fig.
Inhab. Coast of Sussex.

## 3. PRIAPULUS.

Priapulus, *Lamk. Hist.* iii. 76, 1816, 2nd edit. iii. 467; *Flem. Brit. Anim.* 491, 1828; *Forbes, Brit. Starf.* 256.
Priapules, *Lamarck, Ext. du Cour,* 38, 1812; *Cuvier, Règ. Anim.* iv. 24, 1817.
Holothuria, sp. *Linn., O. Fab., Müller.*

1. PRIAPULUS caudatus.

Holothuria priapus, *Linn. S. N.* 1091; *O. Fab. F. Græn.* 355; *Müller, Prod.* n. 2807; *Zool. Dan.* t. 94. fig. 1. t. 135. fig. 2.
Priapulus caudatus, *Flem. Brit. Anim.* 491; *Lam. Hist.* iii. 76, 2nd edit. iii. 467; *Forbes, Brit. Starf.* 256. fig.
P. hibernicus, *M'Coy, Ann. & Mag. N. H.* xv. 272. t. 16. f. 1. *a.* In spirits. Old collection.

### 4. Thalassema.

Thalassema, *Cuvier, Tab. Elem.* 1798; *R. Anim.* 2nd edit. iii. 244, not 1st edit.; *Lamk. Syst.* 329, 1801; *Forbes, Brit. Starf.* 259; *Mont. Linn. Trans.* xi.
Lumbricus, sp. *Linn.*

#### 1. Thalassema rupium.

Lumbricus Thalassema, *Pallas, Spic. Zool.* x. t. 1. fig. 6, cop. *E. M.* t. 35. figs. 3–7; *Gmelin, S. N.* 3084.
Thalassema rupium, *Lam. Syst.* (1801), 329.
Th. mutatoria, *Montag. Linn. Trans.* xi. 24. t. 5. fig. 2.
Th. Neptuni, *Gaertner*; *Forbes, Brit. Starf.* 259. figs. 259, 262; *Cuvier, Règ. Anim.* 2nd edit. iii. 244.
*a, b.* In spirits. S. coast of Devon. G. Montague, Esq. Mus. Leach.
*c, d, e.* In spirits. S. coast of Devon. Presented by J. E. Gray, Esq.

### 5. Echiurus.

Echiurus, Echiures, *Cuvier, Règ. Anim.* 2nd edit. iii. 224; *Forbes, Brit. Starf.* 263; *M. Edw. Règ. Anim. Zooph.* t. 22.
Thalassema, *Cuvier, Bull. des Sci.*; *Règ. Anim.* 1st edit. ii. 529; *Savig. Sys. Annel.* 102, 1820.
Thalassema, β, *Cuvier, Règ. Anim.* 2nd edit. iii. 224.

#### 1. Echiurus oxyurus.

Lumbricus oxyurus, *Pallas, Misc. Zool.* 146. t. 11. figs. 1, 6.
Lumbricus echiurus, *Pallas, Spic. Zool.* x. t. 1. figs. 1, 5.
Thalassema echiurus, *Cuvier, Règ. Anim.* ii. 529, 2nd edit.; *Lamk. Hist.* v. 301, 2nd edit. v. 533; *Blainv. Dict. Sci. Nat.* lvii. 499.
Th. aquatica, *Leach, Ency. Brit. Supp.* i. 451.
Th. vulgaris, *Savig. Sys. Annel.* 102, 1820.
Echiurus vulgaris, *Forbes, Brit. Starf.* 263. f. 263, 266, 267; *M. Edw. Règ. Anim. Zooph.* t. 22.
Inhab. St. Andrews, *E. Forbes.*

## Class II. HYPOSTOMA.

Hypostoma, *Gray, Syn. Brit. Mus.* 18; *Ann. & Mag. Nat. Hist. Nov.* 1840, 177.
Stellerides, *Agassiz, Prod. Ann. Nat. Hist.* 1838, i. 440.
Asteriadæ, *Flem. Brit. Anim.* 485.
Asterida, *Müller and Troschel, Asteriden*, i. 1842.

## Order I. ASTEROIDA.

Asteroida, *Gray, Syn. B. Mus.*; *Ann. & Mag. N.H. Nov.* 1840, 178.
Stellerides, *Lamk. Syst.* 345; *Ext. du Cour*, 25, 1812.
Stellerida, *Macleay, Horæ Ent.* ii. 116; *Gray, Ann. Phil.* x. 1825.
Stellata, *Eichwald, Zool.* i. *Spec.* 224, 1829.
Stelleridea, *Blainv. Dict. Sci. Nat.* lx. 214.
Asteriæ, *Agassiz, Prod. Ann. Nat. Hist.* i. 440, 1838; *Müller and Troschel, Aster.* 7, 1842.
Asterias, *Flem. Brit. Anim.* 483.
Cirrigrada, *Forbes, Brit. Starf.* 14, 1841.
Lobistella, *Austen, Ann. & Mag. N. H.* x. 108, 1842.

### Fam. 1. ASTERIADÆ.

Asteriadæ, *Gray, Syn. Brit. Mus.* 1840, 62; *Ann. & Mag. Nat. Hist.* 1840, 178; *Forbes, Wern. Trans.* viii. 1, ined.

#### 1. ASTERIAS.

Asterias, sp. *Linn.*
Asterias, *Lamk. Sys.* 351, 1801; *Gray, Ann. & Mag. N.H.* 1840, 178.
Asteracanthion, *Müller and Troschel, Aster.* 14, 1842.
Stellonia, *Nardo*; *Agassiz, Prod. Ann. Nat. Hist.* 442; *Forbes, Wern. Mem.* viii. 123.
Uraster, *Agassiz, MSS. Ann. Nat. Hist.* i. 442; *Forbes, B. Starf.* 78.
Pentasterie, *Blainv. Dict. Sci. Nat.* lx. 1830.

1. ASTERIAS rubens.

Asterias rubens, *Linn. S. N.* 1099; *O. Fab. F. G.* 369; *Müll. Prod.* 2831; *Retz. Vet. Akad. Hand.* iv. 236; *Lam. Hist.* ii. 562, 2nd edit. iii. 160; *Blainv. Man. Act.* 239. t. 22. fig. *a*, *B*; *Gray, Ann. Nat. Hist.* 1840, 179.
Asteracanthion rubens, *Müll. and Trosch. Ast.* 17; *Duben and Koren, Zool. Bidr.* 241.
Stellonia rubens, *Agassiz, Prod.*; *Forbes, Wern. Mem.* viii. 121.
Uraster rubens, *Forbes, Brit. Starf.* 83. figs. 83, 90.
A. glacialis, *Penn. Brit. Zool.* iv. 60. n. 54; *Flem. Brit. Anim.* 487.
A. clathrata; *Penn. Brit. Zool.* iv. 61. n. 55, young.
*Linck*, t. 7. fig. 9. t. 11. fig. 15. t. 14. fig. 23. t. 15 & 16. fig. 18. t. 34, 35. fig. 58. t. 40. fig. 70, cop. *E. M.* t. 92. figs. 3, 4. t. 93. figs. 1, 2.
Tetractis petaloideus, *Linck*, t. 30. n. 50.
Stella coriaceus vulgaris Luidi, *Linck*, t. 36. n. 61.
*a* & *b*. Adult. Frith of Forth. Presented by W. E. Leach, M.D.
*e*, *f*, *g*. (Not in good state.) Frith of Forth. Presented by W. E. Leach, M.D.

2. ASTERIAS violaceus.

Sol. coriaceus planus, *Linck*, 33. t. 11. fig. 15.
Asterias rubens violacea, *Müller, Zool. Dan.* t. 46, cop. *E. M.* t. 116. figs. 4, 5.
A. violacea, *Gmelin, S. N.* 3163. n. 24; *Blainv. Man. Act.* 239; *Lam. Hist.* 2nd edit. iii. 256; *Ehrenb. Berl. Trans.* xxii. 209. t. 8. fig. 9.
Uraster violaceus, *Forbes, Brit. Starf.* 91. fig.
Ast. Holsatica, *Retz. Ast.* 22 & 26; *Gray, Ann. Nat. Hist.* 1840, 179.
Asteracanthion violaceus, *Müll. and Trosch. Ast.* 16?.
A. minuta, *Retz. Diss.* 24. jun.?
Asterac. rubens, var. *Müll. and Trosch. Ast.* 126?.
*a.* Frith of Forth. Presented by Edward Forbes, Esq.
*b.* Plymouth Sound. Presented by W. E. Leach, M.D.
*c, d.* Berwick-on-Tweed. Presented by G. Johnston, M.D.

3. ASTERIAS glacialis.

Asterias glacialis, *Linn. S. N.*; *Retz. Diss.* 23; *Lam. Hist.* ii. 261. n. 26, 2nd edit. iii. 248; *Müller, Zool. Dan. Prod.* n. 2838; *Gray, Ann. Nat. Hist.* 1840, 179.
Asteracanthion glacialis, *Duben and Koren, Zool. Bidrag.* 240.
Stellonia glacialis, *Nardo, Isis* 1834, 716; *Agassiz, Prod.*; *Forbes, Wern. Mem.* viii. 123.
Uraster glacialis, *Forbes, Brit. Starf.* 78. fig.
A. angulosa, *Müller, Zool. Dan.* ii. t. 41, cop. *E. M.* t. 99. fig. 1.
Stellonia angulosa, *Agassiz, Prod.* 25.
A. echinophora, *Chiaje, Mem.* ii. 356. t. 18. fig. 5.
? A. Saveresi, *Chiaje, Mem.*
Sol. echinatus cancellatus, *Linck*, t. 38, 39. fig. 33, cop. *E. M.* t. 117, 118.
Pentadactylosaster spinosus, *Linck*, 35. t. 4. fig. 7, cop. *E. M.* t. 119. figs. 2, 3.
A. spinosa, *Penn. Brit. Zool.* iv. 62; *Flem. Brit. Anim.* 487, jun.
Stella hibernica echinata, *Pet. Gaz.* t. 16. fig. 5.
*a, b, c, d.* Plymouth Sound. Presented by W. E. Leach, M.D.

4. ASTERIAS hispida.

Stella coriacea acutangula hispida, *Linck*, 31. t. 9. fig. 19. t. 35. fig. 39.
Asterias hispida, *Penn. Brit. Zool.* iv. 62. t. 30. fig. 58.
Stellonia hispida, *Forbes, Wern. Trans.* viii. 123; *Brit. Starf.* 95. figs. 95 & 99.
Inhab. Anglesea, *Pennant*. Isle of Man, *Forbes*.

Fam. 2. ASTROPECTINIDÆ.

Astropectinidæ, *Gray, Ann. & Mag. Nat. Hist.* 1840, 180.

1. ASTROPECTEN.

Astropecten, *Linck, de Stellis Mar.* t. 27; *Gray, Ann. & Mag. Nat. Hist.* 1840, 180; *Blainv. Dict. Sc. Nat.* lx. 220, 1830; *Müll. and Trosch. Ast.* 67.
Asterias, *Agassiz, Prod. Ann. Nat. Hist.* i. 441; *Forbes, Wern. Trans.* viii. 5.
Stellaria, *Nardo, Isis* 1834, 717 (not *Linn.*).

1. ASTROPECTEN irregularis.

Asterias aurantiaca (or auranciaca?), *Müller, Zool. Dan.* t. 83; *Prod.* n. 2831 (not *Linn.*); *Lamk. Hist.* ii. 563?, 2nd edit. iii. 251?; *Flem. Brit. Anim.* 486; *Johnst. Mag. Nat. Hist.* ix. 299. fig. 44; *Forbes, Wern. Mem.* viii. 118; *Brit. Starf.* 130. fig.
Astropecten irregularis, *Linck*, 27. t. 6. fig. 13; *Gray, Ann. Nat. Hist.* 1840, 182.
Ast. irregularis, *Penn. Brit. Zool.* iv. 61. fig. 57.
Astropecten ——, *Linck*, t. 5 & 6. figs. 5 & 13. t. 8. figs. 11, 12. t. 4. fig. 14. t. 27. fig. 44, cop. *E. M.* t. 90. figs. 1–5. t. 91. figs. 1–6.
? Ast. Johnstoni, *Chiaje, Mem.* ii. 356.
? Stella marina minor, *Johnst. Hist. Nat.* t. 8. fig. 11.
Astropecten Mulleri, *Müller and Troschel, Wiegm. Arch.* x. 1844, 181; *Duben and Koren, Zool. Bidrag.* 247.
*a.* Adult.
*b, c.* S. coast of England. Presented by A. G. Melville, M.D.

2. LUIDIA.

Luidia, *Forbes, Wern. Mem.* viii. 123, ined.; *Brit. Starf.* 135; *Gray, Ann. and Mag. Nat. Hist.* 1840, 183; *Müll. and Trosch. Ast.* 77, 1841; *Duben and Koren, K. Veter. Akad.* 1844, 113.
Hemicnemis, *Müll. and Trosch. MSS. Ast.* 77.

1. LUIDIA Savignii.

Asterias Savignii, *Audouin, Savig. Echinod.* t. 3, 1826.
Luidia Savignyi, *Gray, Ann. Nat. Hist.* 1840, 183; *Müll. and Trosch. Ast.* 77; *Duben and Koren, Zool. Bidrag.* 254.
Asterias rubens, *Johnst. Mag. Nat. Hist.* ix. 144. fig. 20.
A. pectinata, *Couch, Mag. Nat. Hist. n. s. Jan.* 1840.
Luidia fragilissima, *Forbes, Wern. Mem.* viii. 123; *Brit. Starf.* 135. fig.; *Gray, Ann. Nat. Hist.* 1840, 183.
Ast. ciliaris, *Phil. Wiegm. Arch.* iii. 193.

Luidia ciliaris, *Gray, Ann. Nat. Hist.* 1840, 183.
Asterias n. sp.?, *Sars, Besk.* 39.
Luidia Sarsii, *Duben and Koren, Ofvers. K. V. Akad. Forh.* 1844, 113.
*a.* Body of very large specimen. Isle of Man. Presented by Edward Forbes, Esq.
*b.* A large specimen. Brodick, Arran. Presented by Sir W. C. Trevelyan, Bart.
*c, d.* Berwick Bay. Presented by G. Johnston, M.D.

### 3. Solaster.

Solasteries, *Blainv. Dict. Sc. Nat.* lx. 222, 1830.
Solaster, *Forbes, Wern. Mem.* viii. 121; *Brit. Starf.* 189; *Gray, Ann. & Mag. Nat. Hist.* 1840, 183; *Müll. and Trosch. Ast.* 26.
Stellonia, sp. *Nardo, Isis* 1834; *Agassiz, Prod. Ann. Nat. Hist.* i. 442.
Crossaster, *Müller and Troschel.*

### * Endeca, *Gray.*

1. Solaster Endeca.
Asterias endeca, *Linn. S. N.*; *Retz. Diss.* 26; *Lamk. Hist.* ii. 560, 2nd edit. iii. 247; *Flem. Brit. Anim.* 487; *Sow. Brit. Misc.* 49. t. 24; *Johnst. Mag. Nat. Hist.* ix. 300. fig. 44; *Linck*, t. 15, 16. fig. 26. t. 17. fig. 27, cop. *E. M.* t. 114, 115.
Stellonia endeca, *Nardo, Isis* 1834; *Agassiz, Prod.*
Solaster endeca, *Forbes, Wern. Mem.* viii. 121; *Brit. Starf.* 109. fig.; *Duben and Koren, Zool. Bidr.* 243; *Gray, Ann. Nat. Hist.* 1840, 183; *Müller and Trosch. Ast.* 26.
A. aspera, *Müll. Prod.* n. 2833.
*a.* Adult. Isle of Man. Presented by E. Forbes, Esq.
*c, d, e.* Adult and young. Frith of Forth. Presented by W. E. Leach, M.D.
*f.* Scotland. Presented by Mr. J. Johnston.

### ** Polyaster, *Gray.*

2. Solaster papposa.
Stella dodedactis, *Linck*, t. 17. fig. 28, t. 22. fig. 52.
Asterias papposa, *Linn. S. N.*; *Müll. Prod.* n. 2832; *Retz. Diss.* 27; *Lamk. Hist.* ii. 559, 2nd edit. iii. 246; *Flem. Brit. Anim.* 487; *Johnst. Mag. Nat. Hist.* ix. 478. fig. 69.
Stellonia papposa, *Agassiz, Prod.*
Solaster papposa, *Forbes, Wern. Mem.* viii. 121; *Brit. Starf.* 112. fig.; *Duben and Koren, Zool. Bidrag.* 243; *Gray, Ann. Nat. Hist.* 1840, 183; *Müll. and Trosch. Ast.* 26.

A. helianthoides, *Penn. Brit. Zool.* iv. 66. fig. 72.
A. stellata, *Retz.*
*a.* Adult. Presented by E. Forbes, Esq.
*b, c, d, e, f, g, h, i.* Adult and young. Frith of Forth. Presented by W. E. Leach, M.D.

## 4. Henricia.

Henricia, *Gray, Ann. & Mag. N. Hist.* 1840, 184.
Linckia, *Nardo*?; *Agassiz, Prod. Ann. Nat. Hist.* i. 441?; *Forbes, Wern. Mem.* viii. 120 (not *Gray* nor *Micheli*).
Echinaster, sp. *Müller and Troschel, Ast.* 23, 1841.
Cribella, *Agassiz, MSS. Ann. Nat. Hist.* i. 441?; *Forbes, Brit. Starf.* 100.

### 1. Henricia oculatus.

Pentadactylosaster oculatus, *Linck*, 31. t. 36. fig. 62.
Asterias oculata, *Penn. Brit. Zool.* iv. 61. t. 30. fig. 56; *Flem. Brit. Anim.* 487.
Linkia oculata, *Forbes, Wern. Mem.* viii. 120. t. 3. fig. 5.
Cribella oculata, *Forbes, Brit. Starf.* 100. fig.
Echinaster oculatus, *Müller and Trosch. Ast.* 24; *Duben and Koren, Zool. Bidrag.* 241.
Henricia oculata, *Gray, Ann. Nat. Hist.* 1840, 184.
? A. perforata, *Müller, Zool. Dan. Prod.* n. 2834?.
? A. multiforæ, *Lam. Hist.* ii. 565?.
(Smaller) Asterias seposita, *Retz. Diss.* 21, not *Müll. and Trosch.*
Asterias sanguinolenta, *Müller, Prod.* 234, not *Retz.*
Echinaster sanguinolentus, *Sars, Wiegm. Arch.* x. 169. t. 6. f. 1, 2.
Echinaster Sarsii, *Müller and Troschel, Wiegm. Arch.* x. 178.
(Larger) Ast. pertusa, *Müller, Prod.* 234; *O. Fab. Nor. Act. Hafn.* xi. (1826) 41. t. 4. fig. 2.
*a.* Plymouth Sound. Presented by W. E. Leach, M.D.
*b, c, d, e, f.* Frith of Forth.
*g, h, i.* Coast of Northumberland. Presented by J. E. Gray, Esq.

### 2. Henricia rosea.

Asterias rosea, *Müller, Prod.* n. 2837; *Zool. Dan.* t. 47.
Cribella rosea, *Forbes, Brit. Starf.* 106. fig.
Linkia rosea, *Thomp. Ann. Nat. Hist.* 1840.
Asteracanthion roseus, *Duben and Koren, Zool. Bidrag.* 241.
*a.* Adult. Ayrshire, Philip Maclagan, Esq. Presented by E. Forbes, Esq.

### Fam. 3. PENTACEROTIDÆ.

Pentacerotidæ, *Gray, Ann. and Mag. Nat. Hist.* 1840, 276.
Goniaster, *Agassiz, Prod. Ann. Nat. Hist.* i. 441.

#### 1. HIPPASTERIA.

Hippasteria, *Gray, Ann. and Mag. Nat. Hist.* 1840, 279.
Asterogonium, sp. *Müller and Troschel, Ast.* 52, 1841.
Pentaceros, sp. *Linck.*
Scutasteries or Platasteries, part., *Blainv. Dict. Sci. Nat.* lx. 219.
Goniaster, sp. *Agassiz, Prod. Ann. Nat. Hist.* i. 441.

1. HIPPASTERIA equestris.

Pentaceros planus, *Link*, 21. t. 22. fig. 21. t. 33. fig. 53.
Hippasteria plana, *Gray, Ann. Nat. Hist.* 1840, 279.
Asterias equestris, *Gmelin, S. N.*?; *Sow. Brit. Misc.* 8. t. 43, good (not *Müller*); *Lam. H.* ii. 555, 2nd edit. iii. 242?; *Fleming, Brit. Anim.* 485; *Jameson, Wern. Mem.* i. 559.
Goniaster equestris, *Agassiz, Prod. Ann. Nat. Hist.* i. 441; *Forbes, Brit. Starf.* 125. figs. 125, 127.
Asterogonium phrygianum, *Müll. and Trosch. Ast.* 52.
Hippasteria europæa, *Gray, Ann. Nat. Hist.* 1840, 279.
A. Johnstonii, *Gray*; *Johnst. Mag. Nat. Hist.* iv. 146. fig. 21 (not *Chiaje*); ? *Lam. Hist.* 2nd edit. iii. 257.
H. Johnstonii, *Gray, Ann. Nat. Hist.* 1840, 279.
Astrogonium phrygianum, *Müller and Trosch. Ast.* 52; *Duben and Koren, Zool. Bidrag.* 246.
*a.* Four-rayed. "H. Johnstonii," *Gray.* North of England. Presented by G. Johnston, M.D.

2. HIPPASTERIA abbensis.

Goniaster abbensis, *Forbes, Ann. and Mag. Nat. Hist.* xi. 280. t. *a.* St. Abb's Head. Presented by Edward Forbes, Esq.

### Fam. 4. ASTERINIDÆ.

Asterinidæ, *Gray, Syn. Brit. Mus.* 1840, 62; *Ann. and Mag. Nat. Hist.* 1840, 288.

#### 1. PALMIPES.

Palmipes, *Linck*; *Gray, Ann. and Mag. Nat. Hist.* 1840, 288; *Agassiz, Prod. Ann. Nat. Hist.* i. 442; *Forbes, Wern. Mem.* viii. 118.
Asteriscus, sp. *Müller and Troschel, Ast.* 39.
Anseropoda, *Nardo, Isis* 1834.
Palmasteries, *Blainv. Dict. Sc. Nat.* lx. 218.

1. PALMIPES membranaceus.

Stella quinquifida palmipes, *Linck*, 29. t. 1. fig. 2; cop. *E. M.* t. 99. figs. 2, 3.
Asterias membranaceus, *Retz. Vet. Akad.* iv. 238; *Diss.* 62; *Gmelin, S. N.* 3164; *Lamk. Hist.* ii. 558, 2nd edit. iii. 244.
Palmipes membranaceus, *Agassiz, Prod. Ann. Nat. Hist.* i. 442; *Forbes, Wern. Mem.* viii. 119; *Brit. Starf.* 116. fig.; *Gray, Ann. Nat. Hist.* 1840, 288.
A. placenta, *Penn. Brit. Zool.* iv. 62. t. 21. fig. 59 *a*.
A. cartilaginea, *Flem. Brit. Anim.* 485.
A. rosacea, *Lam. Hist.* ii. 558.
Asteriscus palmipes, *Müller and Trosch. Ast.* 39.
*a, b, c, d.* Adult. Plymouth Sound. C. Prideaux, Esq. Presented by W. E. Leach, M.D.
*e.* Isle of Man. Presented by Edward Forbes, Esq.

2. PORANIA.

Porania, *Gray, Ann. and Mag. Nat. Hist.* 1840, 288.
Asteropsis, sp. *Müll. and Trosch.* 62, 1842; *Duben and Koren*, 246.
Goniaster, sp. *Thompson; Forbes, Wern. Mem.* iv. 118; *Brit. Starf.* 122 (not *Gray*).

1. PORANIA pulvillus.

Asterias pulvillus, *Müller, Zool. Dan.* t. 19. figs. 1, 2.
Asteropsis pulvillus, *Müller and Trosch. Ast.* 64, 128; *Duben and Koren, Zool. Bidrag.* 246.
Asterias gibbosa, *Leach, MSS. B.M.* 1817 (not *Pennant*).
Porania gibbosa, *Gray, Ann. Nat. Hist.* 1840, 288; *Jukes, Voy.* ii. *App.* 343.
Goniaster Templetoni, *Thompson*; *Forbes, Wern. Mem.* iv. 118. t. 4. figs. 1, 2; *Brit. Starf.* 122. fig.
Asterias equestris?, *Templeton, Mag. Nat. Hist.* ix. 237.
Ast. irregularis, *Fleming, Brit. Anim.* 486; not *Penn.*
*a, b.* Adult. Plymouth Sound. Presented by W. E. Leach, M.D.
*c.* Half-grown. Arran. Presented by W. E. Leach, M.D.
*d, e, g, h.* Half-grown.
*i.* Douglas Bay, Isle of Man. Presented by J. R. Wallace, Esq.

3. ASTERINA.

Asterina, *Nardo, Isis* 1834; *Agassiz, Prod. Ann. Nat. Hist.* i. 442; *Gray, Ann. and Mag. Nat. Hist*, 1840, 289; *Forbes, Wern. Mem.* viii. 120.
Asteriscus, sp. *Müller and Troschel, Ast.* 39.

1. ASTERINA gibbosa.

Pentaceros plicatus, *Linck*, t. 36. fig. 62; *Borlase, Cornw.* 260. t. 25. figs. 25, 26.
Stellula hibernica glabra, *Pet. Gaz.* t. 16. fig. 8.
Asterias gibbosa, *Penn. Brit. Zool.* iv. 62. fig. 59; *Fleming, Brit. Anim.* 486.
Asterina gibbosa, *Forbes, Wern. Mem.* viii. 120.
Asteriscus verruculatus part., *Müller and Trosch. Ast.* 41.
Ast. verruculatus, *Retz. Diss.* 12.
Ast. membranaceus, *Grube*, 26.
? Ast. exigua, *Lamk.* ii. 554, 2nd edit. iii. 241; *Chiaje, Mem.* t. 18. fig. 1.
Ast. minuta, *Blainv. Man. Act.* 238.
Asterina minuta, *Nardo*; *Agassiz, Prod. Ann. Nat. Hist.* i. 442.
A. stellata obtusa ciliata, *Linn. F. Suec.* 2112.
A. pulchella, *Blainv. F. France*, t. ; *Man. Act.* t. 22. fig. 8. *a, b, c, d, e.* Plymouth Sound. Presented by W. E. Leach, M.D.

## Order II. OPHIURIDA.

Ophiurida, *Gray, Syn. Brit. Mus.* 1842, 119, 117.
Ophiuræ, *Agassiz, Prod. Ann. Nat. Hist.* i. 1838, 442; *Forbes, Wern. Mem.* viii.; *Duben and Koren, Bidr.* 232.
Ophiuridæ, *Müller and Trosch. Ast.* 79.
Ophiura, *Lamk. Syst.* 351, 1801; *Fleming, Brit. Anim.* 488; *Batch*, 1779.
Asterophidea, *Blainv. Dict. Sc. Nat.* lx. 223.

### 1. OPHIOLEPIS.

Ophiolepis, *Müller and Troschel, Ast.* 89, 1842; *Duben and Koren, Zool. Bidrag.* 234, 1847.
Ophiocoma, sp. *Forbes, Brit. Starf.* 35.
Ophiura, sp. *Lamk. Hist.* iii. 546; *Agassiz, Prod. Ann. Nat. Hist.* i. 442, 1838.
Asterias, sp. *Müller, Zool. Dan.*

1. OPHIOLEPIS ciliata.

Asterias Ophiura, *Müller, Zool. Dan. Prod.* 235, 2840.
Asterias ciliata, *Retz. Diss.* 29.
Ophiolepis ciliata, *Müller and Troschel, Ast.* 91.
Stella lacertosa, *Linck*, 47. t. 2. fig. 4.
A. lacertosa, *Penn. Brit. Zool.* iv. 63.
? Ophiura lacertosa, *Lamk. Syst.* 351.
Ophiura texturata, *Lam. Hist.* ii. 542, 2nd edit. iii. 221; *Blainv. Man. Act.* 243; *Forbes, Wern. Mem.* viii. 125. t. 4. figs. 3, 4; *Brit. Starf.* 22. fig.

O. brácteata, *Flem. Brit. Anim.* 488; *Johnst. Mag. Nat. Hist.* viii. 465. fig. 41.
O. Aurora, *Risso, Europ. Merid.* v. 273. fig. 29.
O. arenosa, *Leach, Zool. Misc.* ii. 58.
Asterias cordifera, *Chiaje, Mem.* t. 20. fig. 12.
*a, b, c, d.* Dover. Presented by — Tennant, Esq.
*e, f, g.* Dover. Presented by H. Ball, Esq.
*h, i, j, k, l.* Frith of Forth. Presented by E. Forbes, Esq.

2. OPHIOLEPIS albida.

Ophiura albida, *Forbes, Wern. Mem.* viii. 125. t. 4. fig. 586; *Brit. Starf.* 27. fig.
Ophiura texturata, *var.* minor albida, *Lam. Hist.* ii. 542, 2nd edit. iii. 221.
Ophiolepis ciliata minor, *Müller and Troschel, Ast.* 91.
O. texturata, var. *Brit. Collections.*
*a, b.* Frith of Forth. Presented by E. Forbes, Esq.

3. OPHIOLEPIS elegans.

Ophiura elegans, *Leach, Zool. Misc.* ii. 57, 1815.
Ophiura neglecta, *Johnst. Mag. Nat. Hist.* viii. 467. fig. 42; *Lam. Hist.* 2nd edit. iii. 226.
Ophiocoma neglecta, *Forbes, Wern. Mem.* viii. 126. t. 4. fig. 7; *Brit. Starf.* 30. fig.
Asterias squamata, *Chiaje, Mem.* t. 34. fig. 1; not *Lamk.*
Ophiolepis squamata, *Müller and Troschel, Ast.* 92.
Oph. moniliformis, *Grube,* 18 (1840).
*a, b.* Shetland. Presented by A. G. Melville, M.D.

4. OPHIOLEPIS punctata.

Ophiocoma punctata, *Forbes, Brit. Starf.* 37. fig.
Ophiolepis punctata, *Müller and Troschel, Ast.* 92.
*a.* Anstruther. Presented by E. Forbes, Esq.

5. OPHIOLEPIS filiformis.

Asterias filiformis, *Müller, Zool. Dan.* 2843; *Zool. Dan.* t. 122. fig. 1–3.
Ophiura filiformis, *Lam. Hist.* ii. 546, 2nd edit. ii. 236; *Blainv. Man. Act.* 244.
Ophiocoma filiformis, *Forbes, Brit. Starf.* 40. fig.
Ophiolepis filiformis, *Müller and Troschel, Ast.* 94; *Duben and Koren, Zool. Bidrag.* 234.
*a.* Frith of Clyde. Presented by E. Forbes, Esq.
*b, c.* Frith of Clyde.
*d.* Frith of Forth. Presented by A. G. Melville, M.D.

LIBRARY OF THE BOMBAY BRANCH OF THE ASIATIC SOCIETY

2. OPHIOPHOLIS.

Ophiopholis, *Müll. and Trosch. Ast.* 96.

1. OPHIOPHOLIS aculeata.

Bellis scolopendroides, *Linck*, t. 40. fig. 71.
Ophiura bellis, *Edinb. Phil. Journ.* viii. 298; *Flem. Brit. Anim.* 488, 1828; *Johnst. Mag. Nat. Hist.* viii. 595. fig. 66.
Ophiocoma bellis, *Forbes, Wern. Mem.* viii. 226; *Brit. St.* 53. fig.
Asterias aculeata, *Retz. Vetersk. Akad.* iv. 240; *Dissert.* 32; *Müll. Prod.* 2841; *Zool. Dan.* iii. 29. t. 99; *Gmel. S. N.* 3166.
Ophiura Flemingii, *Leach, Zool. Misc.* ii. 56, 1815.
O. Ammothœa, *Leach, Zool. Misc.* ii. 57. t. 79. figs. 1, 2.
Asterias Ophiura, *O. Fab. Faun. Græn.* 371.
Ophiolepis (Ophiopholis) scolopendrica, *Müll. & Trosch. Ast.* 96.
*a.* Isle of Man. Presented by E. Forbes, Esq.
*b, c, d, e.* Shetland and Orkney. W. E. Leach, M.D.

2. OPHIOPHOLIS brachiata.

Asterias brachiata, *Montague, Linn. Trans.* vii. 84.
Ophiura brachiata, *Leach, Zool. Misc.* ii. 57; *Flem. Brit. Anim.* 488; *Blainv. Man. Act.* 243.
Ophiocoma brachiata, *Forbes, Brit. Starf.* 45. fig.
Ophiolepis (Ophiopholis) brachiata, *Müller and Troschel, Ast.* 96.
O. filiformis, *Templeton, Mag. Nat. Hist.*
*a, b, c, d.* Devonshire, G. Montague, Esq.

3. OPHIOPHOLIS Ballii.

Ophiocoma Ballii, *Thompson, Ann. Nat. Hist.* v. 99 (1840); *Forbes, Brit. Starf.* 35. fig.
Ophiolepis Ballii, *Duben and Koren, Zool. Bidrag.* 234.
Ophiolepis (Ophiopholis) Ballii, *Müller and Troschel, Ast.* 97.
Ophiura squamata, *Grube*, 17 (1840).
Inhab. Ireland.

4. OPHIOPHOLIS Goodsiri.

Ophiocoma Goodsiri, *Forbes, Brit. Starf.* 57. fig.; *Müller and Troschel, Ast.* 97.
*a.* Broken. Anstruther, North Britain. Presented by E. Forbes, Esq.

3. OPHIOCOMA.

Ophiocoma, *Müller and Troschel, Ast.* 98.
Ophiocoma, sp. *Agassiz, Prod. Ann. Nat. Hist.* i. 442; *Forbes, Wern. Mem.* viii. 127; *Brit. Starf.* 56; *Duben and Koren*, 234.
Ophiura β, *Blainv. Dict. Sc. Nat.* lx.
Ophiura, sp. *Lamk. Hist.* iii. 1816; *Flem. Brit. Anim.* 1828.

1. OPHIOCOMA nigra.

Stella scolopendroides, *Linck.*
Stella scolopendroides granulata, *Linck*, 50. t. 26. f. 43, cop. *E. M.* t. 124. figs. 2, 3.
Ophiura granulata, *Flem. Brit. Anim.* 488; *Johnst. Mag. Nat. Hist.* lx. 595. fig. 67; *Blainv. Man. Act.* 243.
Ophiocoma granulata, *Forbes, Wern. Mem.* viii. 127; *Brit. Starf.* 50. fig.
Asterias nigra, *Müller, Zool. Dan.* iii. 20. t. 93. figs. 1–4; *Gmel. S. N.* 3168.
Ophiocoma nigra, *Müller and Troschel, Ast.* 100; *Duben and Koren, Zool. Bidrag.* 234.
Ophiura echinata, *Lam. Hist.* ii. 543, 2nd edit. iii. 223.
Ophiocoma echinata, *Agassiz, Prod. Ann. Nat. Hist.* i. 442.
Ast. tricolor, *Retz. Diss.*
Oph. sphærulata, *Nilson.*
Oph. Nilsonii, *Müller and Troschel, Ast.* 100.
*a, b, c.* Devonshire.
*d, e.* Plymouth Sound. W. E. Leach, M.D.

## 4. OPHIOTHRIX.

Ophiothrix, *Müller and Troschel, Ast.* 109; *Duben and Koren, Zool. Bidrag.* 238, 1840.
Ophiocoma, sp. *Forbes, Wern. Trans.* viii. 127; *Brit. Starf.* 60.

1. OPHIOTHRIX fragilis.

Stella echinata, *Rondel, Ins.* 123.
Rosula scolopendroides, *Linck*, t. 37. fig. 65. t. 26. fig. 42, cop. *E. M.* t. 123. figs. 6, 7; *Borlase, Cornw.* t. 25. figs. 19, 24.
Ophiura vulgaris, *Leach, Zool. Misc.* ii. 54 (1815).
Ophiura Rosula, *Flem. Brit. Anim.* 489 (1828); *Johnst. Mag. Nat. Hist.* ix. 231. fig. 26; *Templeton, Mag. Nat. Hist.* 1836, 237. fig. 30.
Ophiocoma Rosula, *Forbes, Wern. Trans.* viii. 127; *Brit. Starf.* 60. fig.
Ast. fragilis, *Abild. Zool. Dan.* iii. 28. t. 98; *Gmel. S. N.* 3168.
Ophiura fragilis, *Lamk. Hist.* ii. 546; *Gravenh. Tergestina*, 104; *Blainv. Man. Act.* 244.
Ophiothrix fragilis, *Müller and Troschel, Ast.* 110; *Duben and Koren, Zool. Bidrag.* 238.
Asterias pentaphylla, *Penn. Brit. Zool.*
A. varia, *Penn. Brit. Zool.*
A. aculeata, *Penn. Brit. Zool.*
A. pentagona, *Chiaje, Mem.* iii. 76. t. 34. fig. 15.

A. Cuvieri, *Chiaje, Mem.* iii. 76. t. 34. fig. 17.
A. hastata, *Penn. Brit. Zool.*
A. fissa, *Penn. Brit. Zool.*
A. nigra, *Penn. Brit. Zool.*
O. spinulosa, *Risso, Eur. Merid.* 272. t. 6. fig. 30.
*a, b, c, d.* S. Devon. W. E. Leach, M.D.
*e.* Frith of Forth. W. E. Leach, M.D.
*f. g, h.* Falmouth. W. Cocks, Esq.
*i, j.* Torbay. W. E. Leach, M.D.

2. OPHIOTHRIX minuta.

Stella hirsuta, &c., *Linck*, 50?.
Asterias minuta, *Penn. Brit. Zool.* iv. 63. n. 61?.
Ophiocoma minuta, *Forbes, Wern. Mem.* viii. 127. t. 4. fig. 8; *Brit. Starf.* 65. fig.
Ophiothrix fragilis, jun., *Müller and Troschel, Ast.* 110.
*a.* Isle of Man. Presented by E. Forbes, Esq.

5. ASTROPHYTON.

Euryale, *Lamk. Ext. du cour*, 35, 1812, no character; *Agassiz, Prod. Ann. Nat. Hist.* i. 443, 1838.
Euryale sp., *Lamk. Hist. A. s. Vert.* iii. 1816.
Euryale β, *Blainv. Dict. Sc. Nat.* lx. 227.
Gorgonocephalus, *Leach, Zool. Misc.* ii. 51, 1815.
Astrophyton, *Linck, De Stellis Mar.*; *Flem. Brit. Anim.* 489, 1828; *Müller and Troschel, Ast.* 121; *Forbes, Brit. Starf.* 67.
Asterias, sp. *Linn. Syst. Nat.*
Ophiura β, *Lamk. Syst.* 350, 1801.

1. ASTROPHYTON arborescens.

Astrophyton scutatum, *Linck*, t. 19. fig. 48; *Flem. Brit. Anim.* 489; *Forbes, Brit. Starf.* 67. fig.; not *Agassiz* nor *Lamk.*
Astrophyton Linckii, *Müller and Troschel, Ast.* 122.
Asterias caput medusæ, *Linn. S. N.* 1101; *Müller, Zool. Dan. Prod.* n. 2844; *Turton, Brit. Fauna*, 149.
Ophiura caput medusæ, *Lamk. Syst.* 351.
A. arborescens, *Penn. Brit. Zool.* iv. 67. n. 73.
Euryale scutatum, *Blainv. Man. Act.* 246?.
Inhab. North Sea.

## Order III. CRINOIDEA.

Crinoidea, *Müller, Agassiz, Prod. Ann. Nat. Hist.* i. 443, 1838; *Gray, Syn. Brit. Mus.* 1842, 118; *Forbes, Wern. Mem.* viii.
Asterencrinea, *Blainv. Dict. Sc. Nat.* lx. 228, 1830.
Pinnigrada, *Forbes, Brit. Starf.* 14.
Pinnigradastella, *Austen, Ann. & Mag. N. H.* x.

## Fam. 1. Pentacrinitidæ.

Pentacrinitidæ, *Gray, Syn. Brit. Mus.* 1842, 119.

### 1. Antedon.

Antedon, *Fremenville, Bul. Soc. Phil.* ii. 349, *Oct.* 1811.
Alecto, *Leach, Zool. Misc.* 61, 1815; not *Lamx.* 1821; *Müller, Bericht Akad. Berlin*, 1841, 179.
Comatula, *Lamk.* 1816; *Blainv. Dict. Sc. Nat.* lx. 229; *Flem. B. A.* 490; *Agassiz, Prod. Ann. N. H.* i. 443; *Gray, Ann. Phil.* xxviii. 392.
Comatule, *Lamk.* 1812 (no char.).
Decameros, *Linck, Stellis*, 55.
Asterocoma, *Blainv. Dict. Sc. Nat.* lx. 229, 1830.
Phytocrinus, *Blainv. Dict. Sc. Nat.* lx. 236, 1830; *Agassiz, Prod. Ann. Nat. Hist.* i. 444, junior.
Pentacrinus, *J. V. Thompson, Mem.*

1. Antedon decameros.

Stella decameros rosacea, *Linck*, 55. t. 37. f. 66, cop. *E. M.* t.
Stella decameros barbata, *Linck*, t. 37. f. 65.
Asterias bifida, *Penn. Brit. Zool.* 65. n. 70.
A. decameros, *Penn. Brit. Zool.* 66. t. 33. f. 71.
A. pectinata, *Adams, Linn. Trans.* v. 10.
Alecto europæa, *Leach, Zool. Misc.* ii. 62, 1821; *Müll. Bericht Akad. Berl.* 1841, 182.
Comatula mediterranea, *Lam. H.* ii. 535, ed. 2. iii. 210; *Sars, Besk.* 40. t. 8. f. 19.
C. rosacea, *Flem. Brit. Anim.* 490; *Blainv. Dict. Sc. Nat.* lx. 229; *Man. Act.* 248; *Forbes, Wern. Mem.* viii. 128; *Brit. Starf.* 5. figs. 5, 8, 11 & 18.
C. barbata, *Flem. Brit. Anim.* 490; *Blainv. Dict. Sc. Nat.* lx. 229.
C. fimbriata, *Müller, Crinoidea*, 132. t. 1.
*Young*, attached, *Forbes, l. c.* fig. 11.
Pentacrinus europæus, *Thomp. Mem. Pent.* t. 1, 2; *Edin. Phil. Journ.* xx. 35. t. 2; *Flem. Brit. Anim.* 490; *Buckland, Bridg. Tr.* t. 52. fig. 2.
Phytocrinus europæus, *Blainv. Dict. Sc. Nat.* lx. 236; *Man. Act.* 255. t. 27. figs. 1, 2; *Agassiz, Prod. Ann. Nat. Hist.* i. 444.
*a.* In spirits. Adult. British ocean.
*b.* Three young, dry, on paper. Cork, *J. V. Thompson.* Presented by G. Johnston, M.D.
*c, d, e.* Adult. Plymouth Sound. W. E. Leach, M.D.
*f.* Adult.

### 2. Gynameda.

Gynameda, *Gray, Proc. Zool. Soc.* 1834, 15; *Agassiz, Prod. Ann. Nat. Hist.* i. 444.

1. GYNAMEDA pulchella.

Gynameda pulchella, *Gray, Proc. Zool. Soc.* 1834, 15; *Agassiz, Prod. Ann. Nat. Hist.* i. 444.
*a.* Kent.

## Sect. II. LEIODERMA.

### Class III. ACALEPHA.

Radiaires molasses, *Lamk. Syst.* 352, 1801; *Hist.* ii. 2nd edit. iii. 1.
Arachnodermata, *Blainv. Dict. Sc. Nat.* lx.; *Man. Act.* 266.
Zoophytes faux, *Blainv. Dict. Sc. Nat.* lx.; *Man. Act.* 110.
Acalepha free, *Flem. Brit. Anim.* 472.
Acalepha libres and A. hydrostatique, *Cuvier, R. A.* iv. 54. 63.
Acalepha, *Eschscholtz, System Acalephen*, 1829, 4to.

### Subclass I. PULMOGRADA.

Pulmograda, *Blainv. Man. Act.* 271.
Discophoræ, *Eschsch. Acal. Syst.* 39.
Medusæ, *Linn. S. N.*
Radiaires Medusaires, *Lamk. Hist.* 2nd edit. iii. 111.

### Order I. PHANEROCARPÆ.

Discophoræ phanerocarpæ, *Eschsch. Syst.* i. 41.
Hooded-eyed Pulmograde Medusæ, *Forbes, Rep. Brit. Assoc.* 1846, 84.

#### Fam. 1. RHIZOSTOMIDÆ.

Rhizostomidæ, *Eschsch. Syst. Acal.* 42.

##### 1. RHIZOSTOMA.

Rhizostoma, *Cuvier, Bull. Soc. Philom.* n. 33, 69; *Eschsch. Acal. Syst.* 45; *Lamk. Syst.* 354 (1801); *Peron, Ann. Mus.* xiv. 362.
Cepheæ, sp. *Lamk. Hist.*
Ephyra, sp. *Peron, l. c.* 354.

1. RHIZOSTOMA undulata.

Medusa undulata, *Penn. Brit. Zool.* iv. 58.
Rhizostoma undulata, *Flem. Brit. Anim.* 502.
R. Cuvieri, *Lamk. Syst.* 354; *Esch. Acal. Syst.* 45; *Peron, Ann. Mus.* xiv. 362; *Eysenh. N. Act. Acad. Leop.* x. 377. t. 34.
R. Aldrovandi, *Forbes, Rep. Brit. Assoc.* 1846, 84.

Cephea Rhizostoma and C. Aldrovandi, *Lamk. Hist.* ii. 517; *Borlase, Cornw.* 257. t. 25. fig. 15; *Reaumur, Hist. Acad. Sci.* 1710, 478. t. 11. figs. 27, 28.
Medusa palmo, *Gmel. S. N.* 3155.
M. octopus β, *Gmel. S. N.* 3155.
*Lost its pedicel.* Medusa simplex, *Penn. Brit. Zool.* from *Borlase, Cornw.* t. 25. figs. 13, 14.
Ephyra simplex, *Penn. Ann. Mus.* xiv. 354.
Inhab.

2. CASSIOPEA.

Cassiopea, *Peron, Ann. Mus.* xiv. 357; *Lamk. Hist.* ii. 512; *Esch. Acal. Syst.* 42.

1. CASSIOPEA lunulata.

Cassiopea lunulata, *Esch.* 44; *Flem. Brit. Anim.* 502; *Forbes, Brit. Assoc. Rep.* 1846, 84.
Medusa lunulata, *Penn. Brit. Zool.* iv. 58; *Borlase, Cornw.* t. 25. figs. 16, 17.
Cassiopea Borlasea, *Peron, Ann. Mus.* xiv. 357; *Lamk. Hist.* ii. 511.
M. octopus *a*, *Gmel. S. N.*; *Moodeer, Abh. Schw. Acad.* 1790, 12. s. 159.
Inhab.

Fam. 2. MEDUSIDÆ.

Medusidæ, *Esch. Acal. Syst.* 58; *Gray, Syn. Brit. M.* 1842, 134.

1. PELAGIA.

Pelagia, *Peron, Ann. Mus.* xiv. 349.
Dianæa, sp. *Lamk. Hist.* ii. 504.

1. PELAGIA cyanella.

Medusa Pelagia, *Löffling, Reise*, s. 105; *Linn. S. N.* 1098.
Dianæa cyanella, *Lamk. Hist.* ii. 507.
D. denticulata, *Lamk. Hist.* ii. 507.
Pelagia denticulata, *Peron, Ann. Mus.* xiv. 507.
P. noctiluca, *Chamisso in Choris Voy. pittor.* i. 3. t. 2.
P. cyanella, *Esch.* 75. t. 6. fig. 1; *Peron; Forbes, Rep. Brit. Assoc.* 1846, 84.
Inhab. Cornwall, *MacAndrew and E. Forbes.*

2. PELAGIA ——.

Pelagia ——, *Ann. Nat. Hist.* xix. t. 9. fig. 5.
Inhab.

2. CHRYSAORA.

Chrysaora, *Peron, Ann. Mus.* xiv. 365; *Esch. Acal. Syst.* 78.
Cyanea, sp. *Lamk. Hist.* ii. 320.

1. CHRYSAORA hysoscella.

Medusa hysoscellâ, *Linn. S. N.* 1097; *Gmel. S. N.* 3153.
M. fusca, *Penn. Brit. Zool.* iv. 75.
Chrys. Lesueur, C. aspilonota, C. cyclonota, C. spelhelmigona, C. spilogona, C. pleurophora, and C. macrogena, *Peron, Ann. Mus.* xiv. 365.
Cyanea punctulata, &c., *Lamk. Hist.* ii. 520; *Borlase, Cornw.* 256. t. 25. fig. 7.
M. fusca, *Penn.*; *Borlase, Cornw.* 257. t. 25. fig. 11.
M. tuberculata, *Penn.*
Cyanea fusca and C. tuberculata, *Flem. Brit. Anim.* 501.
Chrysaora hysoscella, *Esch. Acal. Syst.* 79. t. 7. fig. 2; *Forbes, Rep. Brit. Assoc.* 1846, 84.
Inhab.

3. CYANEA.

Cyanea, *Peron, Ann. Mus.* xiv.; *Esch. Acal. Syst.* 67; *Lamk. Hist.* ii.

1. CYANEA capillata.

Medusa capillata, *Linn. F. Suec.* n. 1286; *Turton, B. F.* 139.
Cyanea arctica, C. Baltica, C. borealis and C. Britannica, *Lamk. Hist.* ii.; *Peron, Ann. Mus.* xiv.; "*Baster. Opusc.* ii. 6. t. 3. fig. 1."
Cyanea capillata, *Esch.* 68; *Forbes, Rep. Brit. Assoc.* 1846, 84; *Flem. Brit. Anim.* 501.
Inhab.

2. CYANEA Lamarckii.

Cyanea Lamarckii, *Dicquemare, Journ. Phys.* 1784, 451. t. 1; *Peron, Ann. Mus.* xiv. 363; *Lamk. Hist.* ii. 518; *Esch. Acal. Syst.* 71. t. 5. fig. 2; *Forbes, Rep. Brit. Assoc.* 1846, 84.
Inhab. North Sea.

4. MEDUSA.

Medusa, *Linn. S. N.*; *Lamk. Syst.* 353; *Esch. Acal. Syst.* 61.
Aurelia, *Peron, Ann. Mus.* xiv. 358; *Lamk. Hist.* ii. 513.
Cyanea, sp. *Cuvier, Règ. Anim.* iv. 56.

1. MEDUSA aurita.

Medusa aurita, *Linn. F. Suec.* n. 1287; *Westgoth.* 172. t. 3. fig. 2; *Lamk. Syst.* 353; *Forbes, Brit. Assoc. Rep.* 1846, 84; *Müller, Zool. Dan.* ii. t. 76, 77.
Aurelia aurita, *Lamk. Hist.* ii. 513.
Cyanea aurita, *Cuv. R. A.* iv. 56; *Flem. Brit. Anim.* 501.
Aur. rosea, *Peron.*
Inhab.

2. MEDUSA cruciata.

Medusa cruciata, *Baster. Opusc.* i. 123. t. 14. figs. 3, 4; *Forbes, Rep. Brit. Assoc.* 1846, 84; *Turton, Fauna,* 139.
M. aurita part., *Esch. Acal. Syst.* 61.
Inhab.

3. MEDUSA purpurata.

Medusa purpurata, *Moodeer,* 167.
M. purpurea, *Penn. Brit. Zool.* iv. 57; *Borl. Cornw.* 257. t. 25. figs. 9, 10.
Aurelia lineolata, *Peron, l. c.* 359.
A. radiolata, *Lamk. Hist.* ii. 511.
M. radiolata, *Esch. Acal. Syst.* 66.
Inhab.

4. MEDUSA Surirea.

Aurelia Surirea, *Lamk. Hist.* ii. 513.
A. Suriray, *Peron, l. c.* 357.
Medusa Surirea, *Esch. Acal. Syst.* 65.
Inhab. English Channel, *Esch.*

5. MEDUSA campanula.

Aurelia campanula, *Lamk. Hist.* ii. 513; *Peron,* 358.
Medusa campanula, *Esch. Acal. Syst.* 65.
Inhab. English Channel, *Esch.*

## Order II. CRYPTOCARPÆ.

Discophoræ cryptocarpæ, *Esch. Acal. Syst.* 84 (1829).
Naked-eyed Pulmograde Medusæ, *Forbes, Rep. Brit. Assoc.* 1846, 85.

### Fam. 1. WILLSIADÆ.

Fam. 1. *E. Forbes, Rep. Brit. Assoc.* 1846, 85.

#### 1. WILLSIA.

Willsia, *E. Forbes, Rep. Brit. Assoc.* 1846, 85.

1. WILLSIA stellata.

Willsia stellata, *Forbes, Rep. Brit. Assoc.* 1846, 85.
Inhab. British Channel; Scotland; *E. Forbes.*

### Fam. 2. OCEANIDÆ.

Oceanidæ. *Esch. Acal. Syst.* 94.

#### 1. TURRIS.

Turris, *Lesson*; *Forbes, Rep. Brit. Assoc.* 1846, 85.
Eirene, *Esch. Acal. Syst.* 94.

1. TURRIS digitale.

Medusa digitale, *O. Fab. F. G.* 366; *Müller, Zool. Dan. Prod.* n. 2824.
Melicerta digitale, *Peron*, 352.
Dianæa digitale, *Lamk.* 507.
Eirene digitale, *Esch.* 95.
Turris digitale, *Lesson*; *Forbes, Rep. Brit. Assoc.* 1846, 85.
Inhab.

2. TURRIS coccinea.

Cyanea coccinea, *Davis.*
Turris neglecta, *Lesson*; *Forbes, Rep. Brit. Assoc.* 1846, 85.
Inhab.

2. SAPHENIA.

Saphenia, *Esch. Acal. Syst.* 93.
Dianæa, sp. *Lamk. Hist.* 505; *Quoy and Gaim. Ann. Sci. Nat.* x.
Geryonia, sp. *Peron, Ann. Mus.* xiv. 329.
Campanella, *Quoy and Gaim. Voy. Astrol.?*; *Blainv. Man. Act.* 286.

1. SAPHENIA dinema.

Saphenia dinema, *Esch.* 93; *Forbes, Rep. Brit. Assoc.* 1846, 85.
Geryonia dinema, *Peron*, 329.
Dianæa dinema, *Lamk. Hist.* 505, 2nd edit. iii. 153.
Campanella dinema, *Blainv. Man. Act.* 286.
Inhab. Devon; Zetland.

3. OCEANIA.

Oceania, *Peron, Ann. Mus.* xiv. 505; *Esch. Acal. Syst.* 97.
Tiara, *Lesson.*
Dianæa, sp. *Lamk. Hist.* iii. 505.

1. OCEANIA octona.

Oceania octona, *Forbes, Rep. Brit. Assoc.* 1846, 85.
Geryonia octona, *Flem. Brit. Anim.* 501; *Edinb. Phil. Journ.* viii. 299.
Inhab.

2. OCEANIA phosphorica.

Oceania phosphorica, *Peron, Ann. Mus.* 344; *Esch. Acal. Syst.* 97; *Blainv. Man. Act.* 282. t. 33. fig. 3.
Dianæa phosphorica, *Lamk. Hist.* iii. 505, 2nd edit. iii. 155.
Inhab. English Channel, *Esch.*

3. OCEANIA diadema.

Oceania diadema, *Peron, Ann. Mus.* xiv. 346.
Dianæa diadema, *Lamk. Hist.* iii. 506.
Inhab. English Channel.

### 4. ÆQUOREA.

ÆQuorea, *Peron, Ann. Mus.* xiv. 366; *Esch. Acal. Syst.* 109; *Lamk. Hist.* ii. ed. 2. iii. 131; *Forbes, Rep. Brit. Assoc.* 1846, 85.

Foveolia, sp. *Peron, Ann. Mus.* 340.

1. ÆQUOREA? octocostata.

ÆQuorea octocostata, *Lesson*; *Forbes, l.c.* 85.

Oceania octocostata, *Sars*, 24. t. 4. fig. 9; *Lamk. Hist.* 2nd edit. iii. 164.

Melicertum campanulatum, *Ehrenb.*, not *Esch.*

Thaumantias Milleri, *Landsborough.*

? Medusa ÆQuorea, *Müll. Prod.* n. 233?; *Jameson, Wern. Mem.* i. 558; *Flem. Brit. Anim.* 500.

Inhab.

2. ÆQUOREA stauroglypha.

ÆQuorea stauroglypha, *Peron, Ann. Mus.* 337; *Lesueur, Voy.* t. 10. figs. 7, 8, 9; *Lamk. Hist.* 2nd edit. iii. 137.

Inhab. English Channel, *Lamk.*

3. ÆQUOREA allantophora.

ÆQuoræa allantophora, *Peron, Ann. Mus.* 338; *Lesueur, Voy.* t. 12. figs. 5, 9; *Esch. Acal. Syst.* 111; *Blainv. Man. Act.* 278; *Lamk. Hist.* 2nd edit. iii. 138.

Inhab. English Channel, *Lamk.*

### 5. CIRCE.

Circe, *Mertens*; *Brandt, Mem. Petersb.* 1838, 354. t. 1; *Lamk. Hist.* 2nd edit. iii. 166; *Forbes, Rep. Brit. Assoc.* 1846, 85.

1. CIRCE rosea.

Circe rosea, *Forbes, Rep. Brit. Assoc.* 1846, 85.

Inhab. Zetland.

### 6. THAUMANTIAS.

Thaumantias, *Esch. Acal. Syst.* 102; *Lamk. Hist.* 2nd edit. iii. 161; *Forbes, Rep. Brit. Assoc.* 1846, 85.

Geryonia, sp. *Flem. Brit. Anim.*

1. THAUMANTIAS hemisphærica.

Medusa hemisphærica, *Linn. S. N.* 1098; *Gronov. Act. Helv.* iv. 38. t. 4. fig. 7; *Müll. Zool. Dan.* t. 7; *Macartney, Phil. Trans.* 1810, 268. t. 15. fig. 5; *Lamk. Hist.* 2nd edit. ii. 161.

Geryonia hemisphærica, *Flem. Brit. Anim.* 500.

Thaumantias hemisphærica, *Esch. Acal. Syst.* 103; *Lamk. Hist.* 2nd edit. iii. 161.

Inhab. British Seas.

2. THAUMANTIAS cymbaloidea.

Medusa cymbaloidea, *Slabber, Phys. Belus. S.* 53. t. 12. figs. 1, 3; *Moodeer, l.c.* n. 238; *Ency. Method.* t. 93. figs. 2, 4.
Dianæa cymbaloidea, *Lamk. Hist.* ii. 508, 2nd edit. iii. 158.
Medusa campanella, *Shaw, Misc.* vi. t. 196.
Thaumantias cymbaloidea, *Esch. Acal. Syst.* 102; *Lamk. Hist.* 2nd edit. iii. 161; *Blainv. Man. Act.* 285.
Oceania? cymbaloidea, *Peron, Hist. Med.* 34.
Inhab. North Sea.

3. THAUMANTIAS pileata.

Thaumantias pileata, *E. Forbes, Ann. Nat. Hist.* 1841, 85.
Inhab.

4. THAUMANTIAS Thompsonii.

Thaumantias Thompsonii, *E. Forbes, Ann. Nat. Hist.* 1841, 85.
Inhab.

5. THAUMANTIAS punctata.

Thaumantias punctata, *E. Forbes, Ann. Nat. Hist.* 1841, 85.
Inhab.

6. THAUMANTIAS sarnica.

Thaumantias sarnica, *E. Forbes, Ann. Nat. Hist.* 1841, 85.
Inhab.

There are twelve other undescribed British species.—*E. Forbes.*

7. SLABBERIA.

Slabberia, *Forbes, Rep. Brit. Assoc.* 1846, 85.

1. SLABBERIA halterata.

Slabberia halterata, *Forbes, Rep. Brit. Assoc.* 1846, 85.
Inhab. Coast of Cornwall, *E. Forbes.*

8. GERYONIA.

Geryonia, *Peron, Ann. Mus.* xiv.; *Esch. Acal. Syst.* 86; *Forbes, Rep. Brit. Assoc.* 1846, 85.
Orythia, sp. *Peron, Ann. Mus.* xiv.

1. GERYONIA appendiculata.

Geryonia appendiculata, *Forbes, Rep. Brit. Assoc.* 1846, 85.
Inhab. British Channel.

2. GERYONIA minima.

Medusa minima, *Baster. Opusc. sub.* ii. 62. t. 7. fig. 5; *Moodeer, l. c.* 227.
Orythia minima, *Peron, Ann. Mus.* 328; *Lesueur, Voy.* t. 3. fig. 2; *Lamk. Hist.* ii. 503, 2nd edit. iii. 146.

Geryonia minima, *Esch. Acal. Syst.* 87; *Blainv. Man. Act.* 287.
Inhab. British Channel.

### 9. Tima.

Tima, *Esch. Acal. Syst.* 103; *Lamk. Hist.* ed. 2. iii. 168; *E. Forbes, Rep. Brit. Assoc.* 1846, 85.

1. Tima? Bairdii.

Tima? Bairdii, *Johnst.*; *Forbes, Rep. Brit. Assoc.* 1846, 85.
Inhab. East coast of Scotland.

### 10. Bugainvillia.

Bugainvillia, *Lesson, Ann. Sci. Nat.* 1836, t. 5; *Forbes, Rep. Brit. Assoc.* 1846, 85.
Hippocrene, *Mertens MSS.*; *Brandt, Mem. Petersb.* 29; *Lamk. Hist.* 2nd edit. ii. 151.

1. Bugainvillia Britannica.

Hippocrene Britannica, *E. Forbes, Ann. N. H.* 1841, 81. t. 1. f. 1.
Inhab.
There are two other British species.—*E. Forbes.*

### 11. Lizzia.

Lizzia, *E. Forbes, Rep. Brit. Assoc.* 1846, 85.
Cytalis?, *Esch. Acal. Syst.* 104?; *Sars, Besk.* 28; *Lamk. Hist.* 2nd edit. iii. 165.

1. Lizzia octopunctata.

Lizzia octopunctata, *Forbes, Rep. Brit. Assoc.* 1846, 85.
Cytalis? octopunctata, *Sars, Besk. ov. Polyp.* 28. t. 6. fig. 14; *Lamk. Hist.* 2nd edit. iii. 166.
Inhab. Zetland Seas.

There are two other undescribed British species in the same seas. —*E. Forbes, l. c.* 85.

### 12. Moodeeria.

Moodeeria, *E. Forbes, Rep. Brit. Assoc.* 1846, 85.

1. Moodeeria ——?

Moodeeria ——, n. s., *Forbes, Rep. Brit. Assoc.* 1846, 85.
Inhab. Hebrides, *E. Forbes.*

### 13. Sarsia.

Sarsia, *Lesson*; *E. Forbes, Rep. Brit. Assoc.* 1846, 85.
There are four British species of this genus.—*E. Forbes.*

### 14. Steenstrupia.

Steenstrupia, *E. Forbes, Rep. Brit. Assoc.* 1846, 85.

There are three British species of this genus.—*E. Forbes.*

### 15. Eulimena.

Eulimena, *Flem. Edinb. Phil. Journ.* viii. 302.

1. Eulimena quadrangularis.

Eulimena quadrangularis, *Flem. Edinb. Phil. Journ.* viii. 302; *Brit. Anim.* 500.
Inhab.

## Subclass II. ANOMALA.

Radiaires anomales, *Lamk. Hist.* ii. 457, 459, ed. 2. iii. 10.

## Order III. CILIOGRADÆ.

Ciliogradæ, *Gray, Syn. Brit. Mus.* 1842, 134.
Ciliogrades, *Blainv. Dict. Sci. Nat.* lx.; *Man. Act.* 143.
Ciliobranches, *Blainv. Man. Act.* 110.
Ctenophora, *Esch. Acal. Syst.* 21.

### Fam. 1. Beroidæ.

Beroidæ, *Esch. Acal. Syst.* 35; *Gray, Syn. B. M.* 1842, 134.
Beroides part., *Lamk. Hist.* 2nd edit. iii. 48.

### 1. Beroë.

Beroë, *Browne, Jam.*; *O. Müller, Zool. Dan.*; *Esch. Acal. Syst.* 35.
Beroë, sp. *Lamk. Hist.* ii. 468, 2nd edit. iii. 49.
Idya, *Lesson.*

1. Beroë cucumis.

Beroë cucumis, *O. Fab. F. Græn.* 361?; *Flem. B. A.* 503; *Esch. Acal. Syst.* 36; *Lamk. Hist.* ed. 2. iii. 51; *Sars, Besk. Pol.* 30.
B. fulgens, *Macartney, Phil. Trans.* 1810, 364. t. 15. figs. 1–8.
Inhab. North Sea.

2. Beroë ——?

Beroë?, *Fleming, Brit. Anim.* 504.
Patella, *Cordiner, Rem. Ruins,* n. 11. fig. *g*, G.
Inhab.

3. Beroë borealis.

Idya ——, n. s., *Fremenville, N. Bull. Soc. Phil.* 1809, 239. fig.; *Flem. Mem. Roy. Soc. Edinb.* iii. 400. t. 38. figs. 3, 4.
Idya borealis, *Lesson*; *Lamk. Hist.* 2nd edit. iii. 51.
Beroë?, *Esch. Acal. Syst.* 38.
Inhab. North Sea.

Fam. 2. Callianiridæ.

Callianiridæ, *Esch. Acal. Syst.* 21; *Gray, Syn. Brit. Mus.* 1842; *Lamk. Hist.* 2nd edit. iii. 32.

1. Cydippe.

Cydippe, *Esch. Acal. Syst.* 25; *Lesson, Ann. Sci. Nat.* 1836, v. 256; *Lamk. Hist. A. s. V.* 2nd edit. iii. 35.
Eucharis, *Peron, Ann. Mus.*
Pleurobranchæa, *Flem. Phil. Zool.* 612.
Pleurobranchia, *Flem. Brit. Anim.* 1828.
Eschscholtzia, *Lesson, Ann. Sci. Nat.* 1836.
Mertensia, *Lesson, Ann. Sci. Nat.* 1836.

1. Cydippe pileus.

Volvax bicaudatus, *Linn. S. N.* 1325.
Beroë pileus, *Müller, Prod.* n. 2817; *Lamk. Hist.* ii. 470; *Cuv. R. A.* iv. 59; *Scoresby, Arct. Reg.* i. 549. t. 16. fig. 4.
Medusa pileus, *Gmelin, S. N.* 3152.
Cydippe pileus, *Esch. Acal. Syst.* 24; *Lamk. Hist.* 2nd edit. iii. 36.
Pleurobranchia pileus, *Flem. Brit. Anim.* 504.
Beroë lævigatus, *Moodeer*; *Gronov. Act. Helv.* iv. 36. t. 4. figs. 1–6; *Baster. Opusc.* 124. t. 14. figs. 6, 7.
Inhab. British Channel.

2. Cydippe infundibulum.

Volvox Beroë, *Linn. S. N.* 1324.
Beroë infundibulum, *Müller, Prod.* n. 2816; *Moodeer, N. A. Schw. Akad.* 1790, 11.
Medusa infundibulum, *Gmel. S. N.* 3152.
Cydippe infundibulum, *Esch. Acal.* 26; *Lamk. Hist.* 2nd edit. iii. 37.
Beroë ovata, *Bast. Opusc.* i. 123. t. 14. fig. 5; *Lamk. Hist.* ii. 469.
Beroë ovatus, *Flem. Brit. Anim.* 502.
Beroë, *Flem. Wern. Mem.* iii. 401. t. 18. figs. 3, 4; *Ellis, Phil. Trans.* lix. 144.
Inhab. Firth of Tay.

3. CYDIPPE pomiformis.

Cydippe pomiformis, *Paterson, Trans. Roy. Irish Acad.* xix. 91. t.
Inhab. Coast of Ireland.

2. BOLINA.

Bolina, *Paterson, Trans. Roy. Irish Acad.* xix. 91.

1. BOLINA HIBERNICA.

Bolina hibernica, *Paterson, Trans. Roy. Irish Acad.* xix. t. 2. fig.
Inhab. Coast of Ireland.

## Order IV. PHYSOGRADÆ.

Physogradæ, *Gray, Syn. Brit. Mus.* 1842.
Physogrades and Diphyes, *Blainv. D. S. N.* lx.; *Man. Act.* 111.

### Fam. 1. DIPHYIDÆ.

Diphyidæ, *Esch. Acal. Syst.* 122.
Diphyides, *Lamk. Hist.* 2nd edit. iii. 65.
Diphyes, *Blainv. Dict. Sci. Nat.* lx.; *Man. Act.* 125.

1. DIPHYES.

Diphes, *Cuvier, R. A.*; *Esch. Acal. Syst.* 135.
Dagysa, *Solander.*

1. DIPHYES campanulifera?

Diphyes campanulifera, *Esch. Acal. Syst.* 137; *Lamk. Hist.* 2nd edit. iii. 70.
D. Bory, *Quoy and Gaim. Ann. Sci. Nat.* x. t. 1. figs. 1, 7; *Voy. Astrol.* 83. t. 4. figs. 1–6; *Blainv. Man. Act.* 135. t. 5. fig. 1; *Thompson, Ann. and Mag. Nat. Hist.* 1841, 164.
Inhab.

### Fam. 2. PHYSOPHORIDÆ.

Physogrades, *Blainv. Dict. Sci. Nat.* lx.; *Man. Act.* 111.
Physophoridæ, *Esch. Acal. Syst.* 139; *Gray, Syn. Brit. Mus.* 1842, 134.
Physophorides, *Lamk. Hist.* 2nd edit. iii. 73.

1. ARETHUSA.

Arethusa, *Browne, Jam.* 386.
Physalia, *Lamk. Syst.* 1801, 356; *Hist.* ii. 2nd edit. iii. 89.
Thalia, *Brug. Ency. Méth.* t. 89.
Urtica marina, *Sloane, Jam.* i. 7.
Holothuria, sp. *Linn.*
Cystisoma, *Lesson.*
Physophora, *Moodeer.*

1. ARETHUSA ——?
Physalis, *Thompson, Ann. and Mag. Nat. Hist.*
Inhab. Coast of Ireland, *W. Thompson.*

## Order V. CHONDROGRADÆ.

Chondrogrades, *Blainv. Dict. Sci. Nat.* lx.; *Man. Act.* 110.
Chondrogradæ, *Gray, Syn. Brit. Mus.* 1842, 134.
Cirrhigrades, *Blainv. Dict. Sci. Nat.* lx.; *Man. Act.* 303.
Velellidæ, *Esch. Acal. Syst.* 165.
Physophorides part., *Lamk. Hist.* 2nd edit. iii. 73.

### Fam. 1. VELELLIDÆ.

Velellidæ, *Esch. Acal. Syst.* 165; *Gray, Syn. B. M.* 1842, 134.
Cirrhigrades, *Blainv. Man. Act.* 303.

#### 1. AGLAURA.

Aglaura, *Oken, Lehrb.* 125, 1815.
Velella, sp. *Flem. Brit. Anim.* 500.
Rataria, *Esch. Acal. Syst.* 166 (1829).

1. AGLAURA pocillum.
Medusa pocillum, *Mont. Linn. Trans.* xi. t. 14. fig. 4; *Isis*, 1817, 483. t. 3. fig. 4.
Rataria pocillum, *Esch. Acal. Syst.* 168; *Lamk. Hist.* 2nd edit. iii. 97.
Velella pocillum, *Flem. Brit. Anim.* 500.
Aglaura crista, *Oken, Naturg.* 135.
Inhab. Devonshire.

#### 2. PHYLLODOCE.

Phyllodoce, *Browne, Jam.* 387; *Moodeer*, not *Salisbury.*
Velella, *Lamk. Syst.* (1801), 355; *Hist.* 2nd edit. iii. 99; *Peron, Ann. Nat. Hist.*; *Esch. Acal. Syst.* 168.

1. PHYLLODOCE vulgaris.
Velella vulgaris, *Leach, MSS. Brit. Mus.* 1819.
V. limbosa, *Lamk.*?; *Flem. Brit. Anim.* 500.
V. aurora, *Esch. Acal. Syst.* 171.
? Holothuria spirans, *Forsk.*; *Penn, Light. Fl. Scot.* i. 66.
? Medusa Velella, *Linn. S. N.* 1098?; *Walker, MSS.* 1771.
? Phyllodoce Velella, *Moodeer.*

? Velella mutica, *Lamk. Syst.* 355.
V. Scaphidia, *Peron.*
*a, b, c, d, e.* In spirits. Barnstable, S. Devon, *Rev. I. Henslow.*

## Class IV. ZOOPHYTA.

Zoophyta, *Gray, Syn. Brit. Mus.* 1838, 128; 1842, 134.
Anthozoa, *Ehrenberg, Corall. Roth. Meer.* 31; *Johnst. Zooph.* 3.
Radiated Zoophytes, *Johnst. Mag. Zool. and Bot.* i. 447.
Polypi, *Owen, Lectures,* 81.
Polypes, *Jones, Anim. Kingd.* 17. 50.

### Order I. ZOANTHARIA.

Zoantha, *Blainv. Man.* 308, 1834.
Zoocorallia polyactinia, *Ehrenb. Corall.* 31.
Les Zoantaires, *Audouin and M. Edwards in Lam. Anim. s. Vert.* ii. 106, 1836.
Zoophyta helianthoida, *Johnst. in Mag. Zool. & Bot.* i. 448, 18 ?
Zoantharia, *Blainv. Dict. Sci. Nat.* lx. 1830; *J. E. Gray in Syn. Brit. Mus.* 129.
Anthozoa helianthoida, *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 180.

### Suborder I. GYNOSOMATA.

#### Fam. 1. ACTINIADÆ.

Actinia, *Linn. Syst.* 1088; *Soland. Zooph.* 1.
Les Actinies, *Cuv. Règ. Anim.* iii. 291.
Actiniadæ, *J. E. Gray in Syn. Brit. Mus.* 134; *Johnston, Hist. Brit. Zooph.* p. 203, 2nd edit.
Zoanthaires mous ou Actiniens, *Blainv. Dict. Sci. Nat.* lx. 1830, 285; *Man. Act.* 1834.
Actinina, *Ehrenberg, Corall. des Roth. Meer.* p. 31; *Johnston, Hist. Brit. Zooph.* p. 202, 2nd edit.

#### 1. CAPNEA.

Capnea, *Johnst. Brit. Zooph.* 2nd edit. p. 203.
Kapnea, *E. Forbes, Ann. Nat. Hist.* 1841, 81.

1. CAPNEA sanguinea.

Kapnea sanguinea, *Forbes in Ann. and Mag. Nat. Hist.* vii. 82. pl. 1. fig. 1. *a, b, c, d*; *Reports Ray Soc.* 379.
Capnea sanguinea, *Johnston, Hist. Brit. Zooph.* 2nd edit. p. 203. fig. 43.
Inhab. Isle of Man.

### 2. Corynactis.

Corynactis, *Allman, Ann. Nat. Hist.* xvii. 417.

1. Corynactis viridis.

Corynactis viridis, *Allman in Ann. and Mag. Nat. Hist.* xvii. 417. pl. 11; *Johnston, Hist. Brit. Zooph.* 2nd edit. p. 205. t. 35. figs. 10, 11.
Actinia Iris, *Müller, Zool. Dan.* iii. 3. t. 82. figs. 5, 6?
Inhab. Cork.

2. Corynactis Allmani.

Corynactis Allmani, *Thompson*; *Johnst. Brit. Zooph.* 2nd edit. 474. fig. 85.
Inhab. Belfast Bay.

### 3. Actinia.

Actinia, *Linn.*
Priapus, *Linn.* 10th edit.; *Forsk.*
Zoanthes, sp. *Cuv. Tabl. Elem.* 1797, 653.

1. Actinia mesembryanthemum.

La plus petite des Orties de mer, *Rondel. Poiss.* 380 (quoad fig.).
Ortie de mer, *Reaumur in Mém. de l'Acad. Roy. des Sciences*, 1710, pl. 10. fig. 22.
Priapus equinus, *Linn. Syst. Nat.* 10th edit. 656.
Hydra disciflora, *Gærtner, Phil. Trans.* lii. 83. pl. 1. fig. 5; *Phil. Trans. abridg.* xi. 529.
Actinia equina, *Linn. Syst.* 1088; *Dicquemare in Phil. Trans.* lxiii. 364. pl. 16. figs. 1–7; *Müller, Zool. Dan. Prod.* 231; *Flem. Brit. Anim.* 497; *Cuv. Règ. Anim.* iii. 292; *Johnston in Trans. Newc. Soc.* ii. 243; *Dalyell, Edinb. New Phil. Journ.* xvii. 411, *Proc. Brit. Assoc.* 1834, 599; *Templeton, Mag. Nat. Hist.* ix. 303.
Act. mesembryanthemum, *Ellis and Soland. Zooph.* 4; *Encycl. Méth. Vers*, pl. 73. fig. 3; *Turt. Brit. Faun.* 131; *Rapp, Polyp.* 52. t. 2. fig. 1; *Johnston, Mag. Nat. Hist.* viii. 81. fig. 12; *Grube, Actin.* 10; *Couch, Zooph. Cornw.* 31; *Corn. Faun.* iii. 74. pl. 14. fig. 1; *Hassall, Ann. and Mag. Nat. Hist.* vii. 285; *Johnston, Hist. Brit. Zooph.* 2nd edit. p. 211. fig. 45. t. 36. figs. 1–3.
Act. hemisphærica, *Penn. Brit. Zool.* iv. 104; *Berk. Syn.* i. 186; *Hogg's Stock.* 30.
Act. rufa, *Penn. Brit. Zool.* iv. 105; *Jameson, Wern. Mem.* i. 558; *Stew. Elem.* i. 393; *Roget, Bridgw. Treat.* i. 198. figs. 86, 87.
Act. corallina, *Risso, l'Europ. Mérid.* v. 285.

BRANCH

Common Actinia, *Buckland, Bridgw. Treat.* ii. 89. pl. 54. figs. 1 F
Small red Sea Nettle, *Wallis, Hist. of Northumb.*
Hydra mesembryanthemum, *Stew. Elem.* ii. 451.
Entacmæa mesembryanthemum, *Ehrenb. Corall. R. M.* 36??
Inhab. Coast of England.

2. ACTINIA margaritifera.

Actinia margaritifera, *Templeton, Mag. Nat. Hist.* ix. 304. fig. 50; *Johnston, Hist. Brit. Zooph.* 2nd edit. p. 213. fig. 46.
Inhab. Copeland Island.

3. ACTINIA Chiococca.

Actinia Chiococca, *Johnston, Hist. Brit. Zooph.* 2nd edit. p. 214. t. 36. figs. 4–6.
Inhab. Cornwall.

4. ACTINIA chrysosplenium.

Actinia chrysosplenium, *Johnston, Hist. Brit. Zooph.* 2nd edit. p. 215. t. 37. figs. 1–3.
Inhab. St. Ives.

5. ACTINIA coccinea.

Actinia coccinea, *Müll. Zool. Dan. Prod.* 231. no. 2792; *Zool. Dan.* ii. 30. t. 63. figs. 1–3; *cop. Encyclop. Méthod. Vers*, pl. 72. figs. 1–3; *Turt. Gmel.* iv. 101; *Bosc, Vers*, ii. 255; *Lam. Anim. s. Vert.* iii. 68, 2nd edit. iii. 407; *Johnston, Hist. Brit. Zooph.* 2nd edit. p. 215.
A. crassicornis jun., *Johnston, Brit. Zooph.* 1st edit.
Inhab. Coast of Ireland.

6. ACTINIA viduata.

Actinia viduata, *Müll. Zool. Dan. Prod.* 231. no. 2799; *Zool. Dan.* ii. 31. pl. 63. figs. 6–8; *cop. Encyclop. Méthod.* t. 72. figs. 4, 5; *Turt. Gmel.* iv. 101; *Lam. Anim. s. Vert.* iii. 68, 2nd edit. iii. 407; *Bosc, Vers*, ii. 256; *W. Thompson, Ann. & Mag. N. Hist.* vii. 481; *Johnston, Hist. Brit. Zooph.* 2nd edit. p. 215.
Isacmæa viduata, *Ehrenb. Corall.* 34.
Inhab. Ireland.

7. ACTINIA Troglodytes.

Actinia viduata, *Johnston, Mag. Nat. Hist.* viii. 82. fig. 13; *E. Forbes in Ann. Nat. Hist.* iii. 48.
Act. mesembryanthemum var. β, *Johnst. Brit. Zooph.* 211.
Act. viduata, *Couch, Zooph. Cornw.* 31; *Corn. Faun.* iii. 75.
Act. Troglodytes, *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 216. f. 47.
Inhab. Berwick Bay.

8. ACTINIA alba.

Actinia alba, *Johnston, Hist. Brit. Zooph.* 2nd edit. p. 217. pl. 37. figs. 4–7.
Inhab. Cornwall.

9. ACTINIA anguicoma.

Actinia anguicoma, *Price, MSS.*; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 219. fig. 48. t. 37. figs. 8, 9.
Inhab. Bangor.

10. ACTINIA intestinalis.

Actinia intestinalis, *Fabr. Faun. Grœnl.* 350. no. 342. pl. 1. fig. 11; *Flem. Brit. Anim.* 498; *Johnston, Hist. Brit. Zooph.* 2nd edit. p. 219. fig. 49.
Inhab. Zetland.

11. ACTINIA chrysanthellum.

Actinia chrysanthellum, *Johnst. Hist. Br. Zooph.* 2nd edit. p. 221. t. 37. figs. 10–15.
Inhab. Cornwall.

12. ACTINIA biserialis.

Actinia biserialis, *Forbes, Ann. N. H.* v. 182. pl. 3; *Johnston, Hist. Brit. Zooph.* 2nd edit. p. 221. t. 38. fig. 1.
Inhab. Guernsey.

13. ACTINIA vermicularis.

Actinia vermicularis, *Forbes, MSS.*; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 222. t. 38. figs. 2–5.
Inhab. Zetland.

14. ACTINIA cylindrica.

Actinia cylindrica, *Reid, Ann. N. H.* 1848, 34. t. 6. figs. 21, 22.
Inhab. St. Andrew's Bay.

## 4. CEREUS.

Cereus, *Oken, Lehrb.* 1815.
Anthea, *Johnston, Brit. Zooph.* 1st edit. 1838.
Anemonia, *Risso, Eur. Mérid.* 1826.
Actinocereus, *Blainv. Dict. Sci. Nat.* lx. 1830.

1. CEREUS sulcata.

Urtica cinerea, *Rondel. Poiss.* 381.
Hydra tentaculis, &c., *Gœrtner, Phil. Trans.* lii. 78. t. 1. fig. 1; *Phil. Trans. abridg.* xi. 526.
Actinia Cereus, *Ellis and Soland. Zooph.* 2; *Turt. Gmel.* iv. 103; *Turt. Brit. Faun.* 131; *Rapp, Polyp.* 56. t. 2. fig. 3; *Grube, Actin.* 11.

Act. sulcata, *Penn. Brit. Zool.* iv. 102; *Berk. Syn.* i. 186; *Stew. Elem.* i. 394; *Flem. Brit. Anim.* 498; *Lam. Anim. s. Vert.* iii. 69; *Encyclop. Méthod. Vers*, pl. 73. fig. 12; *Bosc, Vers*, ii. 257.
Actinocereus sulcatus, *Blainv. Dict. Sci. Nat.* lx. 194 (1830).
Hydra Cereus, *Gmelin, S. N.* 3867; *Stew. Elem.* ii. 451.
Anthea Cereus, *Johnst. Brit. Zooph.* 221; *W. Thompson, Ann. & Mag. Nat. Hist.* vii. 481; *Hassall, ibid.* vii. 286; *Couch, Zooph. Cornw.* 34; *Corn. Faun.* iii. 81. pl. 14. fig. 2; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 240. t. 44.
Inhab. Cornwall.

2. CEREUS edulis.

Anemonia edulis, *Risso, l'Europ. Mérid.* v. 289.
Actinia Tuediæ, *Johnst. Mag. Nat. Hist.* v. 163. fig. 58, *and in Trans. Newc. Soc.* ii. 246.
Anthea Tuediæ, *Johnst. Brit. Zooph.* 221; *Landsborough in Scot. Christ. Herald for April* 1840, p. 243; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 242. fig. 53.
Inhab. Berwickshire.

## 5. CRIBRINA.

Cribrina, *Ehrenb. Roth. Meer.* 40, 1834.
Actinocereus, sp. *Blainv. D. S. N.* lx. 193, 1830.
Zoanthes, sp. *Cuvier, Tab. Elem.* 653, 1797.
Actinoloba, sp. *Blainv. D. S. N.* lx. 288, 1830.

1. CRIBRINA gemmacea.

Ortie de mer, *Reaumur in Mém. de l'Acad. Roy. des Sci.* 1710, pl. 10. figs. 21, 23, 26.
Hydra disciflora, *Gærtner, Phil. Trans.* lii. 82. t. 1. fig. 4; *cop. Encyclop. Méthod. Vers*, pl. 70. fig. 4; *Phil. Trans. abridg.* xi. 529.
Hydra gemmacea, *Stew. Elem.* ii. 451.
Actinia gemmacea, *Ellis and Soland. Zooph.* 3; *Turt. Gmel.* iv. 104; *Turt. Brit. Faun.* 131; *Jameson in Wern. Mem.* i. 558; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 223. t. 37. figs. 6–9.
Act. verrucosa, *Penn. Brit. Zool.* iv. 103; *Berk. Syn.* i. 186; *Lam. Anim. s. Vert.* iii. 70; *Stark, Elem.* ii. 412; *Rapp's Polyp.* 50.
Act. glandulosa, *Bosc, Vers*, ii. 259; *Rapp's Polyp.* 52.
Actinocereus sessilis, *Blainv. Dict. S. N.* 1830, lx. 193.
Cribrina verrucosa, *Ehrenb. Corall.* 40.
Inhab. Cornwall.

2. CRIBRINA monile.

Actinia monile, *Templeton, Loud. Mag. Nat. Hist.* ix. 303. fig. 49; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 224. fig. 51.
Inhab. Belfast.

3. CRIBRINA coriacea.

L'Actinie coriace, *Cuv. Règ. Anim.* iii. 291.
Actinia coriacea, *Rapp, Polyp.* 51. t. 1. figs. 3, 4; *Teale, Trans. Leeds Soc.* i. 91. pl. 9, 10, 11; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 224. t. 39. figs. 1, 2.
Act. senilis, *Flem. Brit. Anim.* 498.
Act. gemmacea, var. β, *Johnst. Brit. Zooph.* 213. pl. 27; *Couch, Corn. Faun.* iii. 76.
Cribrina coriacea, *Ehrenb. Corall.* 40.
Act. digitata, *Müll. Zool. Dan.* iv. 16. t. 133?
Act. monile, *Cocks.*
Act. troglodytes, *Couch.*
Act. bellis, *Couch, Corn. Faun.* iii. 76.
Inhab. Cornwall.

4. CRIBRINA crassicornis.

L'Ortie rouge, *Rondel. Poiss.* i. 381–382.
Priapus sive Actinia proboscidibus crassis rotundis, *Bast. Opusc.* subsec. i. lib. iii. 143. t. 13. fig. 1.
Act. felina, *Linn. Syst.* 1088; *Barbut, Gen. Verm.* 53. t. 5. fig. 6.
Act. senilis, *Dicquemare, Phil. Trans.* lxiii. 367. t. 16. fig. 10, and t. 17. figs. 11, 12; *Johnst. Trans. Newc. Soc.* ii. 245 (pelagic varieties); *Templeton, Mag. Nat. Hist.* ix. 303.
Actinia crassicornis, *Müll. Zool. Dan. Prod.* 231; *Adams, Linn. Trans.* iii. 252; *Jameson, Wern. Mem.* i. 558; *Stew. Elem.* i. 393; *Lam. Anim. s. Vert.* iii. 67, 2nd edit. iii. 407; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 226. t. 40.
Act. holsatica, *Rathke, Müll. Zool. Dan.* iv. 23. t. 139.
Act. equina, *Sowerby, Brit. Misc.* 7. pl. 4.
? Act. bimaculata, *Grube, Actin.* 4. fig. 4.
Inhab. Coast of England.

5. CRIBRINA parasitica.

La quatrième espèce d'Ortie, *Rondel. Poiss.* i. 382. fig.
Actinia effœta, *Rapp's Polyp.* 54. t. 2. fig. 2.
Act. parasitica, *Couch, Zooph. Cornw.* 34; *Corn. Faun.* iii. 80. pl. 15. figs. 1, 2; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 228. t. 41.
Inhab. Cornwall.

6. CRIBRINA bellis.

Hydra calyciflora, *Gærtn. Phil. Trans.* lii. 79. t. 1. fig. 2; *Phil. Trans. abridg.* xi. 527.

Actinia bellis, *Ellis and Soland. Zooph.* 2; *Rapp's Polyp.* 50. t. 1. figs. 1, 2; *Turt. Gmel.* iv. 103; *Turt. Brit. Faun.* 131; *Hassall, Ann. & Mag. Nat. Hist.* vii. 285; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 228. fig. 52. t. 41.

Actinia Templetonii, *Couch, Corn. Faun.* iii. 80.

Actinia pedunculata, *Penn. Brit. Zool.* iv. 102; *Berk. Syn.* i. 186; *Lam. Anim. s. Vert.* iii. 70, 2nd edit. iii. 411; *Bosc, Vers,* ii. 258; *Stark, Elem.* ii. 412; *Flem. Brit. Anim.* 498; *Templeton, Mag. Nat. Hist.* ix. 303.

Actinocereus pedunculata, *Blainv. Dict. Sc. Nat.* 1830, lx. 194.

Hydra bellis, *Stew. Elem.* ii. 451.

Cribrina bellis, *Ehrenb. Corall.* 41; *Edw. Lam. Anim. s. Vert.* 2nd edit. iii. 425; *Grube, Actin.* 12.

Act. Templetonii, *Couch, Corn. Faun.* iii. 76.

Inhab. Cornwall.

7. CRIBRINA Dianthus.

Urtica soluta caryophyllum referens, *Planc. Conch.* 43. t. 4. fig. 6.

Priapus sive Actinia proboscidibus tenuibus brevibus, *Bast. Opusc. subsec.* i. *lib.* iii. 143. t. 13. figs. 2–4 (bene).

Actinia senilis, *Linn. Syst.* 1089.

Actinia judaica, *Linn. Syst.* 1088.

Actinia Dianthus, *Ellis in Phil. Trans.* lvii. 436. t. 19. fig. 8, *cop. in Encyclop. Méthod. Vers,* pl. 71. fig. 5; *Ellis & Soland. Zooph.* 7; *Shaw, Nat. Misc.* xiii. pl. 539 (*copied from Ellis and coloured from the description* !); *Turt. Gmel.* iv. 104; *Turt. Brit. Faun.* 131; *Stew. Elem.* i. 394; *Flem. Brit. Anim.* 498; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 233. t. 43.

Fourth species of Anemony, *Dicquemare, Phil. Trans. abridg.* xiii. 638. pl. 12. fig. 9.

Actinia pentapetala, *Penn. Brit. Zool.* iv. 104; *Berk. Syn.* i. 187; *Lam. Anim. s. Vert.* iii. 71, 2nd edit. iii. 412; *Bosc, Vers,* ii. 259.

Le Zoanthe à cinq pétales, *Cuvier, Tab. Elem.* 653.

Actinoloba Dianthus, *Blainv. Dict. Sc. Nat.* lx. (1830), 288; *Man. Actinol.* 322.

Actinia plumosa, *Müll. Zool. Dan. Prod.* 230. no. 2791; *Zool. Dan.* iii. 12. t. 88. figs. 1, 2 (drawn when the animal has been in a very relaxed and half-expanded condition), and fig. 4; *Turt. Gmel.* iv. 100; *Turt. Brit. Faun.* 130; *Stew. Elem.* i. 394; *Lam. Anim. s. Vert.* iii. 68, 2nd edit. iii. 407; *Bosc, Vers,* ii. 256; *Stark, Elem.* ii. 412; *Cuv. Règ. Anim.* iii. 291; *Rapp's*

*Polyp.* 55. t. 3. fig. 1 (good); *Johnston, Trans. Newc. Soc.* ii. 246; *Micros. Journ.* ii. 147.
Metridium plumosa, *Blainv. Dict. Sc. Nat.* lx. 287; *Actinol.* 321.
Actinia senilis, *Barb. Gen. Verm.* 53. t. 5. fig. 5; *Adams, Linn. Trans.* v. 9; *Lam. Anim. s. Vert.* iii. 68; *Stark, Elem.* ii. 412.
Hydra Dianthus, *Stew. Elem.* ii. 451.
Act. Dianthus, *W. Thompson, Ann. Nat. Hist.* v. 251.
Inhab.

*Doubtful Species.*

1. Actinia truncata, *Jameson, Wern. Mem.* i. 558; *Penn. Brit. Zool.* iv. 106; *Turt. Brit. Faun.* 131.
Inhab.

2. Actinia sulcata, *Templeton, Loud. Mag. N. H.* ix. 303.
A. effœta, jun., *Templeton.*
Inhab.

3. Actinia caryophyllus, *Stew. Elem.* i. 394; *Penn. B. Z.* iv. 106; *Martin, Marine Worms.*
A. Dianthus?, *Johnst. Brit. Zooph.* 234.
Inhab.

4. Actinia anemonoides, *Turt. Syst. Nat.* iv. 101.
Act. Anemone, *Penn. B. Z.* iv. 106; not *Ellis*; *Shaw, Nat. Misc.* t. 26, 27.
Inhab.

## 6. Adamsia.

Adamsia, *E. Forbes, Ann. Nat. Hist.* v. 183.
Cribrina, sp. *Ehrenb. Corall.* 41.

### 1. Adamsia palliata.

Medusa palliata, *Bohad. Anim. Mar.* 135. t. 11. fig. 1.
Actinia maculata, *Adams, Linn. Trans.* v. 8; *Coldstream, Edinb. New Phil. Journ.* ix. 236. t. 4. figs. 6, 7; *and in Edinb. Journ. Nat. & Geogr. Sc.* iii. 49; *Forbes, Ann. Nat. Hist.* iii. 48; *W. Thompson, ibid.* v. 251; *Hassall, ibid.* vii. 286.
Act. carciniopados, *Otto in Nov. Act. Acad. C. L. C. Nat. Cur.* xi. 288. pl. 40; *D. Chiaje, Anim. s. Vert. Nap.* ii. 242; *Rapp, Polyp.* 58; *Grube, Actin.* 13.
Cribrina palliata, *Ehrenb. Corall.* 41; *Lam. Anim. s. Vert.* 2nd edit. iii. 426.
Actinia picta, *Risso, l'Europ. Mérid.* v. 286.
Actinia effœta, *Turt. Gmel.* iv., 101; *Turt. Brit. Faun.* 131.
Parasite Actinia, *Landsborough in Scot. Christ. Herald,* ii. 333.

Adamsia maculata, *Forbes in Ann. Nat. Hist.* v. 183.
Adamsia palliata, *Johnst. Brit. Zooph.* 2nd edit. 207. fig. 44. t. 42. figs. 1, 2.
Inhab. Milford Haven.

### 7. Iluanthos.

Iluanthos, *E. Forbes, Ann. Nat. Hist.* v. 184.

1. Iluanthos scoticus.

Iluanthos scoticus, *Forbes, Ann. Nat. Hist.* v. 184. pl. 3; *W. Thompson, Ann. Nat. Hist.* xv. 322; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 243. t. 45. figs. 1, 2.
Inhab. Loch Ryan.

## Fam. 2. Lucernariadæ.

Lucernariadæ, *M. Edw. Cuvier, R. A. Zooph.* t. 63; *Johnst. Brit. Zooph.* 2nd edit. 244.
Actiniadæ pars, *Gray, Syn. Brit. Mus.*

### 1. Lucernaria.

Lucernaria, *Müller, Zool. Dan. Prod.* 232; *Ehrenb. Corall.* 43; *Johnst. Brit. Zooph.* ed. 2. 244.

1. Lucernaria fascicularis.

Lucernaria fascicularis, *Fleming in Wern. Mem.* ii. 248. pl. 18. figs. 1, 2; *Flem. Brit. Anim.* 499; *Templeton in Mag. Nat. Hist.* ix. 304; *Lamouroux, in Mém. du Mus.* ii. 470; *Ehrenb. Corall.* 43; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 244. t. 45. figs. 3–7, and 252.
L. quadricornis, *Müller, Zool. Dan. Prod.* 227; *Zool. Dan.* i. 51. t. 39; *Johnst. Brit. Zooph.* 252, 476.
Inhab. Zetland.

2. Lucernaria auricula.

Holothuria lagenam referens tentaculis octonis fasciculatis, *Müll. Zool. Dan. Prod.* 232. no. 2812.
Lucernaria auricula, *Fab. Faun. Grœnl.* 341; *Montagu in Linn. Trans.* ix. 113. pl. 7. fig. 5; *Flem. Brit. Anim.* 499; *Johnst. in Mag. Nat. Hist.* v. 44. fig. 29, *and in Trans. Newc. Soc.* ii. 248; *Templeton in Mag. Nat. Hist.* ix. 304; *Sars, Soëdyr. Naturh.* 34. t. 4. figs. 1–13; *Couch, Zooph. Cornw.* 35; *Corn. Faun.* iii. 83. pl. 16. figs. 1–3; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 246. figs. 54, 55; *Edw. Cuv. R. A. Zooph.* t. 63.
L. octoradiata, *Lamk. Anim. s. Vert.* ii. 474.
L. auricula, *Lamour. Mém. du Mus.* ii. 471.
*a.* In spirits.

3. LUCERNARIA campanulata.

Lucernaria campanulata, *Lamx. in Mém. du Mus.* ii. 472. pl. 16. figs. 1–7; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 248.
L. Convolvulus, *Johnst. in Mag. Nat. Hist.* viii. 59. fig. 3.
Lucernaire auricule, *Blainv. Man. Act.* pl. 50. fig. 4.
*a.* In spirits. Presented by G. Johnston, M.D.

4. LUCERNARIA cyathiformis.

Lucernaria cyathiformis, *Sars, Faun. Norv.* i. 26. t. 3. figs. 8–13; *Johnst. Brit. Zooph.* 2nd edit. 475. fig. 86.
Inhab. Arran.

## Suborder II. CHONDROPHORA.

### Fam. 1. ZOANTHIDÆ.

Zoanthina, *Ehrenb. Corall. des roth. Meeres*, p. 45; *Johnst. Hist. Brit. Zooph.* p. 201.
Les Zoanthes, *Cuv. Règ. Anim.* iii. 293.
Les Zoanthaires coriacés, *Blainv. Dict. Sc. Nat.* 1830, 294; *Act.* 1834, 328.
Zoanthidæ, *J. E. Gray in Syn. Brit. Mus.* 129, 1840.

#### 1. ZOANTHUS.

Zoanthus, *Cuvier, Trait. Elem.*; *Règ. Anim.* 1817; *Ehrenb. Corall.*
Zoantha, *Lamk. Anim. s. Vert.*; *Schweiger.*

1. ZOANTHUS Couchii.

Zoanthus Couchii, *Couch, Corn. Faun.* iii. 73. pl. 15. fig. 3; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 202. t. 35. fig. 9; *Ann. Nat. Hist.* xiv. 415.
*a, b, c.* Cornwall, *R. I. Couch, Esq.* Presented by G. Johnston, M.D.
The dry specimen exactly resembles *Sarcodictyon catenata.*

## Suborder III. CORALLIPHORA.

Madreporea, *Blainv. Dict. Sc. Nat.* 1830, 297.
Phytocorallia, Polyactinia and P. dodeactinia, *Ehrenb. Corall.*
Madreporina, *Wiegm. & Ruthe, Handb. Zool.* 592, 1832.
Fungina, *Ehrenb. Corall.*; *Wiegm. & Ruthe*, 592.

### Fam. 1. POCILLOPORIDÆ.

Milleporina, *Ehrenb. Corall. des roth. Meeres*, p. 122; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 194.
Madrepores, *Blainv. Dict. Sc. Nat.* 1830, 347.
Pocilloporidæ, *Gray, Syn. Brit. Mus.* 135.

1. POCILLOPORA.

Pocillopora, *Lamk.*; *Ehrenb. Corall.*
Madrepora, sp. *Müller*; *Linn.*

1. POCILLOPORA? interstincta.

Madrepora interstincta, *Müll. Zool. Dan. Prod.* 252.
Pocillopora interstincta, *Flem. Brit. Anim.* 511; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 194, 251; *New Edinb. Phil. Journ.* 1846, 203.
Inhab. Zetland.

Fam. 2. OCELLINIDÆ.

Ocellina, *Ehrenb. Corall. des roth. Meeres*, p. 75; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 195.
Madrephylliæa, *Blainv. Dict. Sc. Nat.* 1830, 301.
Madreporidæ, *Gray, Syn. Brit. Mus.*; *Ann. Nat. Hist.*

1. TURBINOLIA.

Turbinolia, *Lamk. Hist. A. s. V.*; *Ehrenb. Corall.*

1. TURBINOLIA Millesiana.

Turbinolia Millesiana, *Defrance, Dict. Sc. Nat.* lvi. 92; *Blainv. Dict. Sc. Nat.* lx. 303; *S. V. Wood in Ann. & Mag. N. H.* xiii. 12; *Morris, Cat.* 46; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 196. t. 35. figs. 1–3.
Turbinolia Millesiana, *Lam. Anim. s. Vert.* 2nd edit. ii. 364; *Forbes, Rep. Brit. Assoc.* 1845, 66.
"Turbinolia mixta, *Defrance, MSS.*; *Michelin, Polyp. Fossil. France*, t. 43. fig. 3," *E. Forbes.*
Turbinolia, *Taylor, Loud. Mag. Nat. Hist.* iii. 272.
*a.* North Sea. Presented by J. Alder, Esq.

2. OCULINA.

Oculina, sp. *Lamk. Hist. A. s. V.*; *Ehrenb. Corall.*
Madrepora, sp. *Solander.*

1. OCULINA prolifera.

Madrepora prolifera, *Seba, Mus.* iii. t. 116. fig. 3; *Pallas, Elench.* 307; *Linn. Syst. Nat.* 1281; *Müll. Zool. Dan. Prod.* 252; *Ellis and Solander, Zooph.* 153. t. 32. fig. 2; *Esper, Mad.* i. t. 11.
Oculina prolifera, *Lamk. H. A. s. V.* ii. 286, 2nd edit. ii. 456; *Blainv. Act.* 380; *Ehrenb. Corall. R. M.* 80; *Johnst. Brit. Zooph.* 2nd edit. 195, 251 note; *New Edinb. Phil. Journ.* 1846, 203; *King, Ann. & Mag. Nat. Hist.* 1847, 279.
Inhab. Shetland, *Atkinson.* Mus. Newcastle.

### 3. Caryophyllia.

Caryophyllia, *Lamk. Hist. A. s. V.*
Caryophylliæa, *Blainv.* 1830.
Cyathina, *Ehrenb.*
Astreæ, sp. *Browne*, 17 ?
Turbinolia, sp. *Flem.* 1828; *Blainv.* 1830.

1. Caryophyllia Smithii.

Caryophyllia cyathus, *Fleming in Wern. Mem.* ii. 249, *and in Edinb. New Phil. Journ.* viii. 70; *Broderip in ibid.* viii. 312; *Flem. Brit. Anim.* 508; not *Lamk.*
Car. Smithii, *Stokes and Broderip in Zool. Journ.* iii. 486. pl. 13. figs. 1–6, *and in Bull. des Sc. Nat.* xvii. 157; *Buckland, Bridgw. Treat.* ii. 90. pl. 54. figs. 9–11; *Harvey in Proc. Zool. Soc.* 1834, part ii. 28, *and in Mag. Nat. Hist. n. s.* i. 474. fig. 55; *Thompson in Ann. Nat. Hist.* v. 251; *Portlock's Lond.* 334; *Couch, Zooph. Cornw.* 29; *Corn. Faun.* iii. 72. pl. 12. fig. 3; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 198. t. 35. figs. 4–8.
Car. sessilis, *Bellamy's S. Devon*, 267 & 330. pl. 18.
Car. pygmea, *Risso, l'Eur. Mérid.* v. 352 ?; *Blainv. Dict. Sc. Nat.* lx. 310.
*a, b, c, d.* Cornwall. Presented by G. Johnston, M.D.

2. Caryophyllia borealis.

Fungia turbinata, *Fleming in Wern. Mem.* ii. 25.
Turbinolia borealis, *Flem. Brit. Anim.* 509; *Blainv. Dict. S. N.* 1830, lx. 307; *Johnst. Brit. Zooph.* 2nd edit. 195. f. 42. 473.
Caryophyllia Smithii, var. *Forbes*; *Johnst. B. Z.* 2nd edit. 473.
*a.* Oban, *J. Alder, Esq.* Presented by G. Johnston, M.D.

*Doubtful British Species.*

3. Caryophyllia ramea, *Lamk. Syn.* 370; *Johnst. B. Z.* 2nd edit. 201, 473.
Madrepora ramea, *Linn. Sol. Zooph.* t. 38.
Lithodendron ramea, *Schweig.*
Dendrophyllia ramea, *Blainv.*
Oculina ramea, *Ehrenb.*
Inhab. Mediterranean. Cornish coast, *Murray, Ency. Geog.* 1840, 343.

4. Caryophyllia musicalis, *Lamk. Hist.* ii.
Madrepora musicalis, *Linn. Syst.* 1278; *Berk. Syn.* i. 211; *Turt. S. N.* iv. 625; *Brit. Faun.* 204.
Mad. organum, *Pallas, Zooph.* 317.

Anthophyllum musicalis, *Ehrenb.*
Sarcinula musicalis, *Blainv.*
Inhab. Irish coast.

MADREPORA truncata.
Inhab. "British," *Stewart, Elem.* ii. 426.

MADREPORA lichenoides.
Inhab. "British," *Turt. Brit. Faun.* 204.

## Order II. ZOOPHYTARIA.

Zoophytaria, *Blainv. Dict. Sci. Nat.* lx. 1830; *Man.* 496 (1834); *Gray in Syn. Brit. Mus.* 131 (1842).
Z oocorallia octactinia, *Ehrenb. Corall. des roth. Meer.* 53 (1834).
Les Alcyoniens, *Audouin and M. Edwards in Lam. An. s. Vert.* iii. 105 (1836).
Zoophyta asteroida, *Johnst. in Mag. Zool. and Bot.* i. 447 (1836).
Anthozoa asteroida, *Johnst. Hist. B. Z.* 2nd edit. p. 138 (1847).

### Suborder I. RADICATA.

Polipiers corticifères part., *Lam. Extr. du Cour.* 1812, 1816.
Polipes tubifères, *Lam. Extr. du Cour.* 1812, 1816.

#### Fam. 1. ALCYONIDÆ.

Alcyonidæ, *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 174.
Les Alcyons, *Cuv. Règ. Anim.* iii. 320.
Polypi tubiferi, *Lamk. An. s. Vert.* ii. 403.
Alcyonaria, *Blainv. Man.* 519.
Lobulariadæ, *Johnst. in Trans. Berw. Nat. Club*, i. 107; *J. E. Gray in Syn. Brit. Mus.* 135.
Halcyonina, *Ehrenb. Corall.* 56.
Alcyonina, *Wiegm. & Ruthe*, 595.

##### 1. ALCYONIUM.

Alcyonium, *Linn.*; *Pallas*, 1766; *Lam.* 1801 (not 1806); *Lamx.* 1812, 1816.
Lobularia, *Lamk.* 1816; *Blainv.*; *Ehrenb.*
Cydonium (animal, not sponge), *Fleming*, 1828.
Achilleum, *Oken, Lehrb.* 1815, 82.=A. manus diaboli. A. papillosa.
Magina, *Oken, Lehrb.* 1815, 83.=A. lobatum.
Korkschwamm, *Oken, Lehrb.* 1815, 84.=A. arboreum.

1. ALCYONIUM digitatum.

Alcyonium ramosa digitatum, *Raii Syn.* 31. no. 2; *Breyn. in Ephem. Acad. Leopold.* cent. 8. app. 159; *Bast. Opusc. subs.* i. 24. t. 3. figs. 6, 7 (pessima).

Main de mer, *Jussieu in Mém. Acad. Roy. des Sc.* an. 1742, 294. t. 9. fig. 1.

Dead man's hand, or Dead man's toes, *Ellis, Corall.* 83. no. 2. pl. 32. fig. *a*. A. A. 2.

Alcyonium manus marina, *Ellis in Phil. Trans.* liii. 431. t. 20. figs. 3?, 10.

Magina lobata digitata, *Oken, Lehrb. Nat.* 83.

A. digitatum, *Linn. Syst.* 1294; *Müll. Zool. Dan. Prod.* 255; *Fab. Faun. Grœnl.* 447; *Ellis and Soland. Zooph.* 175. pl. 1. fig. 7; *Jameson in Wern. Mem.* i. 563; *Flem. in Edinb. Phil. Journ.* ix. 251; *Cuv. Règ. Anim.* iii. 321; *Templeton in Mag. Nat. Hist.* ix. 470; *Harvey in ibid. n. s.* i. 475. figs. 56, 57 (very inaccurate); *Macgillivray, Ann. & Mag. Nat. Hist.* ix. 465; *Couch, Zooph. Cornw.* 27; *Corn. Faun.* iii. 58. pl. 13. fig. 2; *Johnst. Brit. Zooph.* 2nd edit. p. 176. f. 38. t. 34.

Alcyonium molle, *Esper*, p. 56. t. 18. B. fig. 42, encrusting the tube of the Amphitrite.

Alc. lobatum, *Pall. Elench.* 351; *Lamour. Cor. Flex.* 336. pl. 12. fig. 4, and pl. 13. fig. omn.; *Corall.* 243. pl. 12. fig. 4, pl. 13 and pl. 14. fig. 1.

Lobularia lobatum, *Deslongchamps, E. M.* 498.

Lobularia digitata, *Lam. Hist.* ii. 413, 2nd edit. ii. 631; *Flem. Brit. Anim.* 515; *Grant, Edinb. Journ. of Sc.* no. 15; *Stark, Elem.* ii. 421; *Johnst. Trans. Newc. Soc.* ii. 250. pl. 8; *Roget, Bridgw. Treat.* i. 162. fig. 56; *Blainv. Actinol.* 521; *Ehrenb. Corall.* 57.

Lobularia grandiflora, *Chamisso, Ehrenb. Corall. R. M.* 57.

Alcyonium Cydonium, *Müll. Zool. Dan.* iii. p. 1. t. 8. figs. 4, 5.

Lobularia conoidea, *Lam. Anim. s. Vert.* 2nd edit. ii. 632; *Deslongchamps, E. M.*

Cydonium Mulleri, *Couch, Zooph. Cornw.* 28 (not of *Fleming, Brit. A.*, nor *Blainv.*, which is a sponge).

Alcyonium exos., *Spix, Ann. Mus.* xiii. 451. 31.

Alcyonium pulmo, *Esper, Supp.* ii. t. 9, dry.

*a, b, c.* In spirits. Coast of Kent. W. E. Leach, M.D.
*d, e.* Dry. Presented by J. E. Gray, Esq.

2. ALCYONIUM glomeratum.

Alcyonidium rubrum, *Hassall, Ann. Nat. Hist.* vii. 285.

Alc. glomeratum, *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 178.

Alcyonidium glomeratum, *Hassall, Ann. Nat. Hist.* xi. 112.

Alcyonium sanguineum, *Couch, Corn. Faun.* iii. 60. pl. 13. fig. 1.

Inhab. Cornwall, *Couch.*

### 2. Sarcodictyon.

Sarcodictyon, *E. Forbes*; *Johnst.* 1847.
Sarcorete, *Johnst. MSS.*

1. Sarcodictyon catenata.

Sarcodictyon catenata, *E. Forbes*; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 179. t. 33. fig. 4–7.
Sarcorete catenata, *Johnst. MSS. Brit. Mus.*
*a.* Scarborough. Presented by G. Johnston, M.D.
*b.* Cornwall. Presented by G. Johnston, M.D.
The dry specimen exactly resembles *Zoanthus Couchii.*

### Fam. 2. Gorgoniadæ.

Ceratophytes, *Cuv. Règ. Anim.* iii. 309.
Polypiers corticifères, *Lam. Anim. s. Vert.* ii. 288.
Gorgoniadæ, *Flem. Brit. Anim.* 511; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 166.
Ceratophyta corticosa, *Schweig. Handb.* 432.
Corallia, *Blainv. Man.* 501.
Ceratocorallia s. Gorgonina, *Ehrenb. Corall.* 133.
Isidea, *Ehrenb. Corall.* 123.
Corallina, *Wiegm. & Ruthe, Handb.* 594, 1832.
Coralliadæ, *J. E. Gray, Syn. Brit. Mus.* 134.

### 1. Gorgonia.

Gorgonia, *Linn.*; *Lam.* 1801.
Eunicea, sp. *Ehrenb.*

1. Gorgonia verrucosa.

Frutex marinus flabelliformis, *Raii Hist. Plant.* iii. 7; *Sir H. Sloane, Phil. Trans. abridg.* 1746, ix. 198. pl. 4. fig. 4.
Keratophyton flabelliforme, cortice verrucosa obductum, *Raii Syn.* 32.
Erica marina alba frutescens, *Petiv. Mus. cent. prim.* 9. no. 50.
Lithophyte second, 3 and 8, *Mars. Hist. Phys. de la Mer*, p. 93. pl. 17. fig. 81, p. 96. pl. 18. fig. 82, p. 104. pl. 21. fig. 97–100.
Warted Sea-fan, *Borl. Cornw.* 238. t. 24. fig. 1.
Gorgonia verrucosa, *Linn. Syst.* 1291; *Pall. Elench.* 196; *Ellis and Soland. Zooph.* 89; *Esper, Pflanz. Gorg.* t. 16. figs. 1, 2; *Cavol. Polyp. Mar.* 29. t. 1. fig. 1–11, t. 4. fig. 1–16; *Lamk. Anim. s. Vert.* 2nd edit. ii. 491; *Lamk. Mém. du Mus.* ii. 82; *Flem. Brit. Anim.* 512; *D. Chiaje, Anim. s. Vert. Nap.* iii. 24 and 27. t. 33. fig. 4–7; *Couch, Zooph. Cornw.* 26; *Corn. Faun.* iii. 56. pl. 12. fig. 1; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 167. t. 32. fig. 1.

Gorg. viminalis, *Sow. Brit. Misc.* 81. pl. 40; not *Pallas* nor *Esper*, t. 11.
Eunicea verrucosa, *Ehrenb. Corall.* 136.
*a.* Devonshire, J. Couch, Esq. Presented by G. Johnston, M.D.

2. GORGONIA pinnata.

Gorgonia pinnata, *Linn. Syst.* edit. x. 802; *Linn. Syst.* 1292; *Müll. Zool. Dan. Prod.* 254; *Ellis and Soland. Zooph.* 87. t. 14. fig. 3; *Rathke, Müll. Zool. Dan.* iv. 37. t. 153; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 168. t. 33. figs. 1–3, not *Lamk.* n. 17?
G. viminalis, *Walker, Wern. Mem.* i. 560.
*a.* Zetland, E. Forbes, Esq. Presented by G. Johnston, M.D.

## 2. MURICEA.

Muricea, *Lamk. Gen. Pol.*; *Blainv.*
Gorgonia, sp. *Pallas, Lamk.*

1. MURICEA Placomus.

Warted Sea-fan, *Ellis, Corall.* 67. no. 1. t. 27. figs. *a.* A. 1, 2, 3.
Gorgonia Placomus, *Pall. Elench.* 201; *Linn. Syst.* 1290; *Ellis and Soland. Zooph.* 86; *Esper, Gorgon.* t. 33, 34, and 34 A; *Lamk. Mém. du Mus.* ii. 83; *Anim. s. Vert.* ii. 316, 2nd edit. ii. 492; *Blainv. Dict. Sc. Nat.* lx. 469; *Flem. Brit. Anim.* 512; *Couch, Zooph. Cornw.* 25; *Corn. Faun.* iii. 55. pl. 12. fig. 2; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 169. t. 32. fig. 2.
Muricea Placomus, *Ehrenb. Roth. Meer.* 134?
Inhab. "Coast of Cornwall," *Ellis.* A doubtful native.

## 3. PTEROGORGIA.

Pterogorgia, *Ehrenb. Corall.* 145.
Gorgonia, sp. *Pallas, Lamk.*
Gorgonia A, *Blainv. Man.* 469.

1. PTEROGORGIA anceps.

Keratophyton dichotomum, caule et ramulis leviter compressis, *Raii Syn.* 32.
Sea Willow, *Ellis, Corall.* 68. no. 2. t. 27. fig. *g.*
Gorgonia anceps, *Pall. Elench.* 183; *Ellis & Soland. Zooph.* 89; *Gmel. Syst.* 1292; *Esper, Pflanz. Gorg.* t. 7. fig. 1–3; *Lamk. Anim. s. Vert.* ii. 317, ed. 2. ii. 494; *Lamour. Cor. Flex.* 395; *Lamk. Mém. du Mus.* ii. 84; *Hist.* ii. 317, 2nd edit. ii. 494; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 169. fig. 36. t. 32. fig. 3.
Pterogorgia anceps, *Ehrenb. Corall.* 145.
Inhab. Margate, *Dale.* A doubtful native.

4. PRIMNOA.

Primnoa, *Lamouroux, Bull. Soc. Phil.* 1812, 188; *Johnst. Brit. Zooph.* 2nd edit. 171; *Blainv. D. S. N.* lx. 474.
Gorgonia, sp. *Pallas.*
Gorgonia C, *Blainv. Man.*

1. PRIMNOA lepadifera.

Reseda similis maritima, *Raii Hist. Pl.* i. 68.
Gorgonia reseda, *Pall. Elench.* 204.
Gorgonia lepadifera, *Linn. Syst.* 1289; *Bast. Opusc. subs.* ii. 130. t. 13. fig. 1; *Ellis and Soland. Zooph.* 84. t. 13. figs. 1, 2; *Jameson, Wern. Mem.* i. 560; *Stew. Elem.* ii. 430; *Lam. Hist. An. s. Vert.* ii. 323, 2nd edit. 507.
Primnoa lepadifera, *Lamour. Bull. Soc. Phil.* 1812, iii. 188; *Corall. Flex.* 223; *Flem. Brit. Anim.* 513; *Ehrenb. Corall.* 133; *Blainv. Act.* 510. pl. 87. fig. 6; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 171. fig. 37.
*a.* ———? Presented by G. Johnston, M.D.

*Doubtful Natives.*

1. IRIS hippuris, *Linn.*; *Ellis, Zooph.* 105. t. 3. figs. 1, 5.
Inhab. West Indies. East coast of Scotland, *Walker.* Orkney, *Jameson, Wern. Mem.* i. 560.

2. IRIS extrochus, *Turt. Brit. Faun.* 206, is the stem of a fossil *Pentacrinus.*

## Suborder II. LIBERA.

Polypes flottans, *Lam.* 1812, 1816.

### Fam. 1. PENNATULIDÆ.

Pennatula, *Linn. Syst.* x. 818; *Pall. Elench.* 362; *Linn. Syst.* 1321.
Les Pennatules, *Cuv. Règ. Anim.* iii. 317, 1817.
Polypi natantes, *Lam. Anim. s. Vert.* ii. 413, 1816.
Pennatulidæ, *Flem. Brit. Anim.* 507; *J. E. Gray, Syn. Brit. Mus.* 132; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 157.
Pennæ marinæ, *Schweig. Handb.* 401, 1820.
Pennatularia, *Blainv. Dict. S. N.* lx. 476, 1830; *Man.* 512, 1834.
Calamites, *Latr. Fam. Nat.* 543.
Pennatulina, *Ehrenb. Corall. des Roth. Meer.* 63.

1. PENNATULA.

Pennatula, sp. *Linn.*
Pennatula, *Lamk.* 1801, 1816; *Cuvier,* 1817.

1. PENNATULA phosphorea.

Penna marina, *Imp. Ital.* 650; *Planch. Conch.* 108. t. 8. E. D.; *Sib. Scot.* ii. lib. tert. 28.

Penna marina rubra, *Albin, Annot. Acad.* i. t. 6. figs. 3, 4, 5; *Ellis, Phil. Trans.* liii. 434. t. 21. figs. 1, 2, 3 (419. t. 19. fig. 1–4, var. *β. Pallas*).

Penna rubra, *Bohad. Anim. Mar.* 101. pl. 8. figs. 1–3.

Pennatula phosphorea, *Linn. Syst.* 1332; *Ellis, Phil. Trans.* liii. 420. pl. 19. figs. 1–5; *Müll. Zool. Dan. Prod.* 255. no. 3075; *Esper, Pflanz. Pennat.* t. iii. figs. 1–3; *Oliv. Zool. Adriat.* 294; *Wern. Mem.* i. 565; *Turt. Brit. Faun.* 217; *Stew. Elem.* ii. 450; *Blumenb. Man.* 274; *Lam. Syn.* 380; *Anim. s. Vert.* ii. 426, 2nd edit. ii. 643; *Cuv. Règ. Anim.* 2nd edit. iii. 318; *Blainv. Man. Act.* 517; *Ehrenb. Roth. Meer.* 66; *Flem. Brit. Anim.* 507; *Stark, Elem.* ii. 420; *Johnst. Trans. Newc. Soc.* ii. 248. pl. 7; *Roget, Bridgw. Treat.* i. 174. figs. 71, 72 (bad); *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 157. fig. 35.

P. rubra, *Pall. Elench.* 368.

P. Britannica, *Ellis and Soland. Zooph.* 61.

Pennatole fosforea, *Delle Chiaje, Anim. s. Vert. Nap.* iii. 4 and 11. t. 31. fig. 15.

*a.* In spirits. Presented by G. Johnston, M.D.
*b, c, d.* Dry. Coast of England.
*e, f.* Dry. Orkney. Hebrides.

2. VIRGULARIA.

Virgularia, *Lamk.* 1816; *Blainv. Dict. S. N.* lx. 1830, 478.

Virgulaire, *Lamk.* 1812 (no char.).

Scirpearia, *Templeton*, not *Cuvier.*

1. VIRGULARIA mirabilis.

Pennatula mirabilis, *Linn. Syst.* 1322; *Müll. Zool. Dan.* i. p. 11. t. 11. figs. 1–3; *Ellis and Soland. Zooph.* 63; *Sowerby, Brit. Misc.* 51. pl. 25; *Jameson, Wern. Mem.* i. 565.

Virgularia mirabilis, *Lam. Anim. s. Vert.* ii. 430, 2nd edit. ii. 647; *Flem. Brit. Anim.* 507; *Grant, Edinb. Journ. of Sci.* no. 14; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 161. t. 30.

Scirpearia mirabilis, *Templeton, Mag. Nat. Hist.* ix. 470.

La Virgulaire à ailes laches, *Blainv. Act.* 514. pl. 90. fig. 3.

*a, b, c.* In spirits. Presented by G. Johnston, M.D.
*d, e.* Dry. South Devon. G. Montague, Esq.

3. PAVONARIA.

? Funiculine, *Lam. Ext. du Cour.* 1812.

Funiculina, sp. *Lam. Hist.* ii. 423, 1816.

Pavonaria, *Cuv.* 1817; *Blainv. Dict. S. N.* lx. 480, 1830; *Ehrenb. Cor. R. M.* 1834; *Johnst. Brit. Zooph.* 1847.

1. PAVONARIA quadrangularis.

Pennatula, *Ellis, Phil. Trans.* liii. t. 20. fig. 8.
Pennæ piscis, *Bohads. An. Mar.* 112. t. 9. figs. 4, 5.
Pennatula quadrangularis, *Pall. Elench.* 372.
Pennatula antennina, *Linn. Syst.* 1323; *Ellis & Soland. Zooph.* 63.
Funiculina tetragona, *Lam. Anim. s. Vert.* ii. 423, 2nd edit. 641.
Pavonaria antennina, *Cuvier*; *Schweig. Handb.* 435; *Ehrenb. Corall. des Roth. Meer.* 64.
Pavonaria quadrangularis, *Blainv. Act.* 516. pl. 90. fig. 1 (*copied from Bohadsch*); *Forbes, Ann. Nat. Hist.* xiv. 414; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 164. t. 31; *Forbes, Rep. Brit. Assoc.* 1845, 66.
*a, b.* Dry. North Sea. Presented by G. MacAndrew, Esq.

## Order III. POLYPIARIA.

Les Sertulairiens, *Audouin & M. Edwards in Lam. Anim. s. Vert.* ii. 105.
Zoophyta hydroida, *Johnst. Mag. Zool. & Bot.* i. 447.
Polypiaria, *Gray, Syn. Brit. Mus.* 133.
Polypiaria part., *Blainv. Dict. S. N.* 1830; *Man. Act.* 1834.
Nudibrachiata, *Farre, Phil. Trans.* 1837.
Hydrozoa, *Owen, Lect.* 82.
Anthozoa hydroida, *Johnst. Brit. Zooph.* 2nd edit. 5.

### Suborder I. TUBULARINA.

Tubularia, *Linn. Syst. Nat.*
Tubularina, *Ehrenb. Corall. des Roth. Meer.* p. 70; *Johnst. Brit. Zooph.* 2nd edit. 29.
Tubularidæ, *Johnst. Brit. Zooph.* 1st edit. 1837.
Les Tubulaires, *Van Beneden.*

#### Fam. 1. CORYNIDÆ.

Corynidæ, *Johnst. Trans. Berw. Club* (1836), p. 107; *Hist. Brit. Zooph.* 2nd edit. p. 30.
Corynaidæ, *Gray, Syn. Brit. Mus.* (1840), p. 76.
Coryne, *Lam. Anim. s. Vert.* ii. 61; *Flem. Brit. Anim.* 553; *Blainv. Man. Act.* 471; *Schweig. Handb.* 409.
Les Corines, *Cuvier, Règ. Anim.* iii. 295.
Tubulariæ pars, *Pallas, Spic. Zool.* fasc. x. pp. 36, 37.
Hydræ pars, *Müller, Zool. Dan. Prod.* p. 230.

### 1. Clava.

Clava, *Gmelin, Berl. Mag.* 1775; *Oken, Lehrb. Nat.* 50, 1815; *Johnst. Brit. Zooph.* 29.
? Fistulana, *Oken, Lehrb. Nat.* 55, 1815.
Corina, *Leach, MSS. Brit. Mus.* 1819.
Coryna, *Ehrenb. Corall.* 1834.

1. Clava multicornis.

Polyporum species margine conchæ insidentes, *Bast. Opusc. subs.* i. 44. t. 5. fig. 2 *c*.
Zoophyton minutum Coryne simillimum, *Pall. Spic. Zool.* fasc. x. 36. t. 4. fig. 9 *d*. D. E. F.
Hydra multicornis, *Forsk. Desc. Anim.* 131. no. 87. t. 26 B. *b*, *copied in Encyclop. Méthod.* pl. 69. figs. 12, 13.
Coryna multicornis, *Ehrenb. Corall. des. roth. Meer.* 69; *Lam. Anim. s. Vert.* 2nd edit. ii. 74; *Templeton, Mag. Nat. Hist.* ix. 419; *Blainv. Act.* 471.
Molluscum, *Müll. Besch. der Berl. Gesell. Nat.* 400. t. 5. figs. 3, 4.
Hydra squamata, *Müll. Zool. Dan. Prod.* 230. no. 2786; *Zool. Dan.* i. 3. t. 4. figs. 1–3, *copied in Encyclop. Méthod.* pl. 69. figs. 10, 11; *Fabr. Faun. Grœnl.* 347.
Coryne squamata, *Oken, Lehrb. Nat.* 51; *Lam. Anim. s. Vert.* ii. 62, 2nd edit. ii. 73; *Jameson, Wern. Mem.* i. 565; *Flem. Edinb. Phil. Journ.* ii. 87; *Phil. Zool.* ii. 616. t. 5. fig. 1; *Brit. Anim.* 553; *Coldstream, Edinb. New Phil. Journ.* ix. 234; *Blainv. Act.* 471; *Stark, Elem.* ii. 443; *Sars, Bidr. til Soëdyr.* 1. p. 1; *Johnst. Br. Zooph.* 109. pl. 2. fig. 1–3; *Hassall, Ann. & Mag. Nat. Hist.* vii. 283; *Macgilliv. ibid.* ix. 463; *Couch, Zooph. Cornw.* 2; *Corn. Faun.* iii. 11. pl. 1. fig. 1; *Van Beneden, Tubul.* 60. pl. 5. figs. 1–14.
Clava parasitica, *Turt. Gmel.* iv. 100.
Tubularia affinis, *Turt. Gmel.* iv. 668; *Turt. Brit. Faun.* 210; *Stew. Elem.* ii. 438.
Fistulana multicornis, *Oken, Lehrb. Nat.* 55.
Clava multicornis, *Johnst. Hist. B. Z.* p. 30. pl. 1. figs. 1–3. 467.
*a*. In spirits. Presented by G. Johnston, M.D.
*b*. In spirits ("*Corina, Leach MSS.*"). S. coast of Devon. Presented by J. Cranch, Esq.

### 2. Hydractinia.

Hydractinia, *Van Beneden, Bull. Acad. Brux.* xii. 1841; *Johnst. Brit. Zooph.* 2nd edit. 34.
Echinochorium, *Hassall, Ann. N. H.* xv. 248, 1841.
Synhydra, *Quatrefages.*
? Dysmorphosa, *Philippi.*
Podocoryna, *Sars, Faun. Lit. Norveg.* i. 4.
Alcyonium, sp. *Blainv.* 1830.

1. HYDRACTINIA echinata.

Alcyonium echinatum, *Flem. Brit. Anim.* 517; *Johnst. Trans. Newc. Soc.* ii. 251. t. 9. fig. 2; *Blainv. Dict. Sc. Nat.* lx. 488; *Man. Act.* 525; *Gray, Zool.* i. 204; *Gould, Massachus.* 351.
Alcyonidium echinatum, *Johnst. Brit. Zooph.* 304. t. 42. figs. 3, 4; *Couch, Corn. Faun.* 134.
Hydractinia echinata, *Johnst. B. Z.* ed. 2. 34. t. 1. figs. 4–6. 467.
Coryne squamata var., *Johnst. Brit. Zooph.* iii. t. 2. figs. 4, 5; *Couch, Corn. Faun.* 12. t. 1. fig. 2.
Echinocorium clavigerum, *Hassall, Ann. & Mag. N. H.* vii. 371. t. 10. fig. 5, xii. 117; *Macgill. Ann. & Mag. N. H.* ix. 463.
Hydractinia lactea, *Van Beneden, Tubul.* 64. t. 6. figs. 7–14; *Ann. Nat. Hist.* xv. 250.
Coryne Hassalli, *Forbes, Ann. Nat. Hist.* xii. 189.
Synhydra parasites, *Quatrefages, Ann. Sc. Nat.* xx. 232. t. 8, 9.
*a*. Berwick Bay, on shells. Presented by G. Johnston, M.D.
*b, c*. Devonshire, on shells. Presented by G. Johnston, M.D.
*d*. Coldingham, on shells. Presented by G. Johnston, M.D.

2. HYDRACTINIA? (Alderi).

Hydractinia Alderi, *Johnst. Brit. Zooph.* 2nd edit. 463. fig. 79 *a*.
Inhab. Coast of Northumberland, Newbiggin-by-the-Sea, *J. Alder, Esq.*

3. HYDRACTINIA? minuticornis?

Hydra corynaria, *Templeton, Mag. N. H.* ix. 419. f. 58; *Johnst. Brit. Zooph.* 2nd edit. 36. fig. 4; not *Bosc.*
Hydra lutea, *Flem. Brit. Anim.* 554; *Jameson, Wern. Mem.* i. 565; not *Bosc.*
Hydra littoralis, *Johnst. Brit. Zooph.* 1st edit. 98.
? Hydra minuticornis, *Müller, Zool. Dan. Prod.* n. 2788.
Inhab. Belfast Lough, 1810, *Templeton.*

## 3. CORYNE.

Coryne, *Gærtn. in Pallas, Spic. Zool.* x. 40; *Johnst. Brit. Zooph.* 2nd edit. 39.
Stipula, *Sars.*
Syncoryna, *Ehrenb. Roth. Meer.* 70.
Hermia, *Johnst. Brit. Zooph.* 111.
Capsularia, *Oken, Lehrb. Nat.* 55, 1815.

1. CORYNE pusilla.

Coryne pusilla, *Gærtn. in Pallas, Spic. Zool.* fasc. x. 40. t. 4. fig. 8, cop. in *Encyclop. Méthod.* pl. 69. figs. 15, 16; *Johnst. Hist. Brit. Zooph.* 39. 467. t. 2.
Tubularia Coryne, *Pallas in lib. cit.*; *Turt. Gmel.* iv. 668; *Turt. Brit. Faun.* 210.

Hydra ramosa, *Fabr. Faun. Grœnl.* 348.

Coryne glandulosa, *Lam. Anim. s. Vert.* ii. 62, 2nd edit. ii. 74; *Flem. Edinb. Phil. Journ.* ii. 87, & viii. 295; *Phil. Zool.* ii. 616. t. 5. fig. 2; *Brit. Anim.* 553; *Johnst. Trans. Newc. Soc.* ii. 253, & *Mag. Nat. Hist.* v. 631. fig. 110; *Blainv. Act.* 471. pl. 85. figs. 3, 3 *a*, *copied from Gœrtner.*

Syncoryna pusilla, *Ehrenb. Corall. des Roth. Meer.* 70; *Van Beneden, Les Tubul.* 53. pl. 3. figs. 1–10.

Hermia glandulosa, *Johnst. Brit. Zooph.* 111. vign. no. 12, and pl. 4. figs. 1, 2; *Thompson, Ann. Nat. Hist.* v. 249; *Hassall, Ann. Nat. Hist.* vii. 283. pl. 6. fig. 2; *Couch, Zooph. Cornw.* 3, and *Corn. Faun.* iii. 12. pl. 1. fig. 3.

Var. *a*. Cor. pusilla, *Ehrenb.*, not *Gœrtn.*; *Johnst. l. c.* t. 4. figs. 1, 2.

*b*. Cor. Listerii, *Johnst. l. c.* 41. t. 2.
Coryne, *Lister, Phil. Trans.* 1834, 376. t. 10. fig. 3.
Syncoryna Listeri, *Van Bened. Tubul.* 54. t. 3. figs. 11, 12.

*c*. Cor. ramosa, *Ehrenb. Corall.* 71; *Johnst. l. c.* 42. t. 6. figs. 4, 5.
Tubularia muscoides, *Linn. S. N.* 1302; *Agardh, K. V. Akad. Handl.* 1816, 256. t. 7. fig. 1; *Thompson, Ann. N. H.* v. 250; *Lamx. Exp. Méth.* 17. t. 68. figs. 6, 7.
Fistularia muscoides, *Müll. Zool. Dan. Prod.* 254.
Fistulana muscoides, *O. Fabr. Faun. Grœn.* 442.

*d*. C. Chamissonis, *Johnst. l. c.* 43.
Coryna ramosa, *Chamisso and Eysenh. Nov. Act. Acad. Cur.* x. 370. t. B. fig. 3.
Syncoryna Chamissonis, *Ehrenb. Cor. Roth. Meer.* 71; *Van Beneden, Tubul.* 55; *Ann. N. H.* xv. 249.

*a*, *b*, *c*. Devonshire. Miss Amelia Griffiths. Presented by G. Johnston, M.D.

*d*. Strangford Lough. W. Thompson, Esq. Presented by G. Johnston, M.D.

*e*. Berwick Bay. Presented by G. Johnston, M.D.

?*f*. Berwick Bay. Presented by G. Johnston, M.D.

*g*. In spirits. Presented by G. Johnston, M.D.

### 4. Cordylophora.

Cordylophora, *Allman, Ann. N. H.* xiii. 330; *Johnst. Brit. Zooph.* 2nd edit. 44.

1. Cordylophora lacustris.

Cordylophora lacustris, *Allman, Ann. N. H.* xiii. 330; *Johnst. Hist. Brit. Zooph.* p. 44. fig. 5.

Inhab. Dublin, Grand Dock, *Allman.*

Fam. 2. TUBULARIADÆ.

Tubulariadæ, *Johnst. Trans. Berw. Cl.* 107; *Grant, Syn. Brit. Mus.* 76; *Johnst. Hist. Brit. Zooph.* p. 45.

Tubularia, *Linn. Syst.* edit. 10, i. 803; *Pallas, Elench.* 79; *Linn. Syst.* 1301; *Lam. Anim. s. Vert.* ii. 108; *Blainv. Act.* 469; *Schweig. Handb.* 424.

Fistularia, *Müller, Zool. Dan. Prod.* 32.

Calamella, *Oken, Lehrb. Nat.* 53, 1815.

1. EUDENDRIUM.

Calamella, sp. *Oken, Lehrb. Nat.* 53, *and Introd.* iv.

Eudendrium, *Ehrenb. Roth. Meer.* 72.

Fistularia, sp. *Müller*; *Lamx.* 1812.

? Siphorus, *Rafinesque, Caratt. Nov. Generi*, 96, 1810.

1. EUDENDRIUM ramosum.

Corallina tubularia gracilis et ramosa, axillis ramulorum contortis, *Ellis, Corall.* 31. no. 3. t. 16. fig. A. & t. 17. figs. *a*, A.

Tubularia ramosa, *Linn. Syst.* x. 804; *Linn. Syst.* 1302; *Soland. Zooph.* 32; *Oliv. Zool. Adriat.* 276; *Berk. Syn.* i. 214; *Turt. Brit. Faun.* 210; *Stew. Elem.* ii. 437; *Wern. Mem.* i. 563; *Lam. Anim. s. Vert.* ii. 110, 2nd edit. ii. 126; *Lamx. Corall. Trans.* 101; *Flem. Brit. Anim.* 552; *Blainv. Act.* 470. pl. 30. fig. 3, *copied from Ellis*; *Hogg's Stock.* 34; *Stark, Elem.* ii. 441. pl. 8. fig. 15, *from Ellis*; *Templeton, Mag. N. H.* ix. 466; *Thompson, Ann. N. H.* v. 250; *Lamx. Exp. Méth.* 17; *Couch, Zooph. Cornw.* 4; *Corn. Faun.* iii. 14; *Gould's Massachus.* 350.

Tubularia Sertularia ramosa, *Dalyell, Anim. Scotl.* i. 64. t. 11.

Tubularia trichoides, *Pall. Elench.* 84; *Lamx. Corall.* 101; *Blainv. Act.* 470.

Fistularia ramosa, *Müll. Zool. Dan. Prod.* 254 (not Fistularia ramosa, *O. Fabr.*).

Eudendrium ramosum, *Ehrenb. Corall. Roth. Meer.* 72; *Johnst. Hist. Brit. Zooph.* p. 46. t. 6. figs. 1, 2, 3. 467; not *Van Beneden.*

*a.* Devonshire, Mrs. Griffith. Presented by G. Johnston, M.D.
*b.* Frith of Forth. Presented by G. Johnston, M.D.
*c.* Berwick Bay. Presented by G. Johnston, M.D.
*d.* Bootle. Presented by G. Johnston, M.D.
*e.* Northumberland. Presented by G. Johnston, M.D.
*f.* Isle of Man, E. Forbes, Esq. Presented by G. Johnston, M.D.

2. TUBULARIA.

Tubularia, sp. *Linn. Syst. Nat.*; *Lamx. Bull. Soc. Philom.* 111, 1812; *Ehrenb. Roth. Meer.* 71; *Johnst. Brit. Zooph.* edit. 1, edit. 2. 48.

Calamella, sp. *Oken, Lehrb. Nat.* 55, 1815.
Eudendrium, sp. *Ehrenb. Roth. Meer.* 72, 1834.
Tubularia *β*, *Cuvier, Tab. Elem.* 665, 1798.

1. TUBULARIA indivisa.

Remarkable Sea-plant, *Lhwyd, Phil. Trans. abridg.* vi. 73. pl. 3. fig. 1.
Adianti aurei minimi facie planta marina, *Raii Syn.* 31. no. 4; *Jussieu, Mém. Acad. Roy. des Sc.* 1742, p. 296. t. 10. fig. 2.
Tubular Coralline like oaten pipes, *Ellis, Phil. Trans.* xlviii. t. 17. fig. D; *Phil. Trans. abridg.* x. 453. pl. 10. fig. D; *Ellis, Corall.* 31. no. 2. t. 16. fig. 6, *copied in Esper, Tubul.* t. 27. fig. 1.
Tubularia indivisa, *Linn. Syst.* x. 803; *Linn. Syst.* 1301; *Ellis and Soland. Zooph.* 31; *Berk. Syn.* i. 214; *Blumenb. Man.* 272; *Turt. Brit. Faun.* 210; *Stew. Elem.* ii. 437; *Jameson, Wern. Mem.* i. 563; *Lam. Anim. s. Vert.* ii. 110, 2nd edit. ii. 125; *Lamx. Cor. Flex.* 230; *Expos. Méthod.* 17; *Cuv. Règ. Anim.* iii. 299; *Bosc, Vers,* iii. 89. pl. 28. fig. 5, *a reduced copy from Ellis*; *Oken, Lehrb. Nat.* 55; *Cuv. Tab. Elem.* 665; *Flem. Brit. Anim.* 552; *Johnst. Trans. Newc. Soc.* ii. 252; *Dalyell, Edinb. New Phil. Journ.* xvii. 411 & xxi. 93, & *Rep. Brit. Assoc.* 1834, 600; *Anim. Scotl.* i. t. 1, 2, 3, 4; *Lister, Phil. Trans.* 1834, 366. pl. 8. fig. 1; *Harvey, Mag. Nat. Hist. n. s.* ii. 511; *Gould's Massachus.* 350; *Thompson, Ann. Nat. Hist.* v. 250; *Couch, Zooph. Cornw.* 3; *Corn. Faun.* iii. 13. pl. 2. figs. 1, 2; *Johnst. Hist. Brit. Zooph.* p. 49. t. 3. figs. 1, 2. 467.
Tubularia calamaris, *Pallas, Elench.* 81; *Ehrenb. C. R. M.* 71.
Tubularia gigantea, *Lamx. Expos.* 17. t. 68. fig. 5.
La Tubulaire chalumeau, *Blainv. Act.* 470.
*a, b.* Berwick Bay. Presented by G. Johnston, M.D.

2. TUBULARIA Dumortierii.

Tubularia Dumortierii, *Van Beneden, Les Tubul.* 50. pl. 2; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 50. t. 7. figs. 1, 2.
*a.* Berwick Bay. Presented by G. Johnston, M.D.

3. TUBULARIA Larynx.

Var. *a.* The tubes simple or undivided.
Fucus Dealensis fistulosus, laryngæ similis, *Raii Syn.* i. 39. no. 8; *Pétiv. Oper.* iii. 39. no. 406; *Ellis, Phil. Trans. abridg.* x. 453. pl. 10. fig. *c*, & xi. pl. 5. fig. 3, young.
Tubulous Coralline wrinkled like the windpipe, *Ellis, Corall.* 30. no. 1. t. 16. fig. *b*.
Corallina tubularia laryngi similis, *Bast. Opusc.* subsec. 41. t. 2. figs. 3, 4, & t. 3. figs. 2–4.

Tubularia muscoides, *Pall. Elench.* 82; *Berk. Syn.* i. 214; *Turt. Brit. Faun.* 210; *Esper, Tub.* t. 4. figs. 1, 2 (*the figures in* t. 4 *are all copied from Baster.*); *Stew. Elem.* ii. 438; *Lamour. Corall.* 101; *Flem. Brit. Anim.* 552.

Tubularia Larynx, *Ellis and Soland. Zooph.* 31; *Lam. Anim. s. Vert.* ii. 110, 2nd edit. ii. 126; *Hogg's Stock.* 34; *Thompson, Ann. Nat. Hist.* v. 250; *Hassall, Ann. & Mag. Nat. Hist.* vii. 284; *Macgillivray, ibid.* ix. 463; *Gould's Massachus.* 350; *Johnst. Brit. Zooph.* 2nd edit. p. 51. t. 3. fig. 3, & t. 5. figs. 3, 4. 467; *Dalyell, Anim. Scotl.* i. 42. t. 5.

Var. β. The tubes subramose. Tub. ramosa, *Esper, Tub.* t. 9. figs. 1–3.

Eudendrium bryoides, *Ehrenb. Corall. des Roth. Meer.* 72.

Windpipe Coralline, *Couch, Zooph. Cornw.* 4; *Corn. Faun.* iii. 13. pl. 2. fig. 3.

*a.* Presented by G. Johnston, M.D.

*b.* From bottom of a vessel from Halifax to Liverpool, and from thence to Belfast, W. Thompson, Esq. Presented by G. Johnston, M.D.

*c.* Var. β. Presented by G. Johnston, M.D.

4. TUBULARIA gracilis.

Tubularia gracilis, *Harvey, Proc. Zool. Soc.* 1836, p. 54; *Johnst. Hist. Brit. Zooph.* 2nd edit. t. 4. figs. 3, 4, 5.

Tub. Larynx, var. β, *Johnst. Brit. Zooph.* 116.

Tub. Calamaris, *Van Beneden, Les Tubul.* 46. pl. 1. figs. 1–6.

Inhab. Devonport, on chains of floating bridge, *Harvey.*

5. TUBULARIA polyceps.

Tubularia polyceps, *Dalyell, Rep. Brit. Assoc.* 1834, 601; *Edinb. New Phil. Journ.* xxi. 93; *Anim. Scotl.* i. t. 12 to 21.

Inhab. Scotland.

*Note.* Tubularia flabelliformis, *Adans. Linn. Trans.* v. 12, is a minute *Diatomacea.*

### 3. CORYMORPHA.

Corymorpha, *Sars, Besk.* 7; *Forbes and Goodsir*; *Johnst. Brit. Zooph.* 2nd edit. 53.

Ellisia, *Forbes, Athenæum,* 1840.

1. CORYMORPHA nutans.

Corymorpha nutans, *Sars, Besk.* 7. pl. 1. fig. 3; *Forbes and Goodsir, Ann. Nat. Hist.* v. 310; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 54. t. 7. figs. 3, 6.

Ellisia flos-maris, *Forbes and Goodsir, Athenæum,* 1840; *Ann. Nat. Hist.* v. 310, 1840.

*a.* In spirits. Orkney, Stromness, E. Forbes. Presented by G. Johnston, M.D.

2. CORYMORPHA ——?

Corymorpha ——?, *Johnst. Brit. Zooph.* 2nd edit. 463. fig. 79 *b*.

## Suborder II. SERTULARINA.

Sertularia, *Linn.*
Sertularina, *Ehrenb. Corall. des Roth. Meer.* p. 73.

### Fam. SERTULARIADÆ.

Sertulariadæ pars, *Flem. Brit. Anim.* 538.
Les Sertularies pars, *Blainv. Act.* 472.
Sertulariadæ, *Johnst. Trans. Berw. Cl.* 107; *Gray, Syn. Brit. Mus.* 76; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 57.
Sertulariæ pars, *Pall. Elench.* 106; *Linn. Syst.* 1306; *Soland. Zooph.* 32.
Sertulariées pars, *Lamour. Expos. Méth.* 9.

#### 1. HALECIUM.

Halecium, *Oken, Lehrb. Nat.* 91, 1815; *Schweiger*, 1820; *Johnst. Brit. Zooph.* 2nd edit. 58.
Thoa, *Lamour.* 1816; *Blainv.* 1830.
Laomedea, sp. *Lamx.* 1812.
Campanularia, sp. *Blainv.* 1830.
Halecina, *J. V. Thompson, MSS.*

1. HALECIUM Halecinum.

Corallina scruposa pennata, cauliculis crassiusculis rigidis, *Raii Syn.* i. 36. no. 15.
Herring-bone Coralline, *Ellis, Phil. Trans. abridg.* x. 454. pl. 10. figs. E, F, G; *Corall.* 17. no. 15. pl. 10; *Phil. Trans.* xlviii. 506. pl. 17. figs. *f*, E.
Sertularia Halecina, *Linn. Syst.* 1308; *Pall. Elench.* 113; *Fabr. Faun. Grœnl.* 443; *Oliv. Zool. Adriat.* 288; *Ellis and Soland. Zooph.* 46; *Berk. Syn.* i. 217; *Esper, Pflanz. Sert.* t. 21. figs. 1, 2; *Turt. Brit. Faun.* 213; *Lam. Anim. s. Vert.* ii. 119, 2nd edit. ii. 146; *Flem. Brit. Anim.* 542; *Johnst. Trans. Newc. Soc.* ii. 259. pl. 12. fig. 2; *Dalyell, Anim. Scotl.* i. 162. t. 27, 28, 29, 30.
Thoa Halecina, *Lamour. Cor. Flex.* 211; *Templeton, Mag. Nat. Hist.* ix. 568; *Blainv. Act.* 488. pl. 84. figs. 4, 4 *a*; *Lamour. Expos. Méth.* 14; *Hassall, Ann. & Mag. Nat. Hist.* vi. 167; *Couch, Zooph. Cornw.* 5; *Corn. Faun.* iii. 15. pl. 3.
Halecium Halecinum, *Schweig. Handb.* 426; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 59. t. 8. p. 468.
Halecina Ellisii, *J. V. Thompson, MSS.*

*a*. Cork. J. V. Thompson, Esq. Presented by G. Johnston, M.D.
*b*, *c*, *d*, *e*, *h*. Berwick Bay. Presented by G. Johnston, M.D.
*f*, *g*. Ireland; Bangor, co. Down, W. Thompson, Esq. Presented by G. Johnston, M.D.
*i*. Presented by G. Johnston, M.D.

2. HALECIUM rameum.

Tubularia ramea, *Pall. Elench.* 83; *Johnst. Brit. Zooph.* 117. pl. 5. figs. 1, 2; *Hassall, Ann. & Mag. Nat. Hist.* vi. 167; *Macgillivray, ibid.* ix. 463; *Couch, Zooph. Cornw.* 4; *Corn. Faun.* iii. 15.
Tubularia Sertularia ramea, *Dalyell, Anim. Scotl.* i. 50. t. 6, 7, 9, 10.
Thoa Savignyi, *Lamx. Exp. Méth.* 15. t. 67. figs. 5, 6 (bad).
Tubularia ramosa, *Johnst. Trans. Newc. Soc.* ii. 253. pl. 10.
Eudendrium rameum, *Johnst. B. Z.* p. 45. t. 5. figs, 1, 2. 467.
*a*, *b*, *c*. Berwick Bay. Presented by G. Johnston, M.D.
*d*. In spirits. Presented by G. Johnston, M.D.

3. HALECIUM Beanii.

Thoa Beanii, *Johnst. Brit. Zooph.* 120. pl. 7. figs. 1, 2; *Thompson, Ann. Nat. Hist.* v. 250; *Hassall, Ann. & Mag. Nat. Hist.* vi. 167; *Dalyell, Anim. Scotl.* i. 169. t. 33. fig. 31.
Halecium Beanii, *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 59. t. 9. figs. 1, 2.
*a*. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.
*b*. Whiteburn, Northumberland. Presented by G. Johnston, M.D.
*c*. Carrickfergus, Belfast, W. Thompson, Esq. Presented by G. Johnston, M.D.

4. HALECIUM muricatum.

Sertularia muricata, *Ellis and Soland. Zooph.* 59. pl. 7. figs. 3, 4; *Esper, Pflanz. Sert.* t. 31. figs. 1, 2; *Don's Pl. and Anim. of Forfar*, 36; *Turt. Brit. Faun.* 215; *Jameson, Wern. Mem.* i. 564; *Flem. Brit. Anim.* 543; *Hogg's Stockton*, 34.
Laomedea muricata, *Lamour. Cor. Flex.* 209.
Campanularia muricata, *Blainv. Act.* 473.
Thoa muricata, *Couch, Zooph. Cornw.* 5; *Corn. Faun.* iii. 16; *Macgillivray, Ann. & Mag. Nat. Hist.* ix. 463; *Dalyell, Anim. Scotl.* i. 173. t. 32.
Halecium muricatum, *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 61. t. 9. figs. 3, 4.
*a*. Tay near Dundee, W. Jackson, Esq. Presented by G. Johnston, M.D.

*b.* Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.
*c.* Frith of Forth. Presented by G. Johnston, M.D.
*d.* Berwick Bay. Presented by G. Johnston, M.D.

### 2. SERTULARELLA.

Sertularia, sp. *Lamx.* 1812; *Blainv.* 1830.
Sertularia, sp. *Linn.*
Sertularia *a*, *Oken, Lehrb. Nat.* 92, 1818; *Johnst. Brit. Zooph.* 2nd edit. 61.

1. SERTULARELLA polyzonias.

Corallina minus ramosa, *Raii Syn.* 35. no. 13. t. 2. fig. 4.
Great Tooth Coralline, *Ellis, Corall.* 5. no. 3. pl. 2. figs. *a.* A, *b.* B, & pl. 38. fig. 1 A.
Corallina pennata et siliquata, *Bast. Opusc.* i. 42. pl. 2. fig. 7 (pessima).
Sertularia polyzonias, *Linn. Syst.* x. 813; *Linn. Syst.* 1312; *Ellis and Soland. Zooph.* 37; *Berk. Syn.* i. 219; *Esper, Pflanz. Sert.* t. 6. figs. 1–6; *Oliv. Zool. Adriat.* 290; *Turt. Gmel.* iv. 683; *Blumenb. Man.* 273; *Oken, Lehrb. Nat.* 92; *Turt. Brit. Faun.* 216; *Jameson, Wern. Mem.* i. 564; *Stew. Elem.* ii. 447; *Lam. Anim. s. Vert.* ii. 117, 2nd edit. ii. 142; *Lamour. Cor. Flex.* 190; *Risso, l'Europ. Mérid.* v. 130; *Bosc, Vers,* iii. 119; *D. Chiaje, Anim. s. Vert. Nap.* iv. 141; *Hogg's Stock.* 31; *Flem. Brit. Anim.* 542; *Johnst. Trans. Newc. Soc.* ii. 256; *Templeton, Mag. Nat. Hist.* ix. 468; *Blainv. Act.* 480; *Hassall, Ann & Mag. N. H.* vi. 167; *Couch, Zooph. Cornw.* 6; *Corn. Faun.* iii. 17; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 61. pl. 10. figs. 1–3. 468; *Dalyell, Anim. Scotl.* i. 134. t. 22.
Sertularia flexuosa, *Linn. Syst.* x. 814. no. 34.
Sertularia ericoides, *Pall. Elench.* 127; *Esper, Pflanz. Sert.* t. 12. figs. 1, 2.
Sertolara polizonia, *Cavol. Polip. Mar.* 224. t. 8. figs. 12–14.
Sertularia Gayi, *Lamour. Expos. Méthod.* 12. t. 66. figs. 8, 9 (var. $\beta$.), fig. bona.
Sertularia pinnata, *Templeton, Mag. Nat. Hist.* ix. 468 (var. *a.*); *Thompson, Ann. Nat. Hist.* v. 250.
Sertularia hibernica, *Johnst. Brit. Zooph.* 128.
Sertularia Ellisii, *M. Edwards, Lam. Anim. s. Vert.* 2nd edit. ii. 142; *Johnst. Brit. Zooph.* 123; *Couch, Zooph. Cornw.* 6; *Corn. Faun.* iii. 17.
Var. *a.* Frondose, diffuse, *Johnst. Brit. Zooph.* ed. 2. pl. 10. fig. 1.
Sert. denticulata, *Montag. Coll. B. M.*
Sert. pennata, *Templeton, Mag. N. H.* ix. 468.

Var. β. Caulescent, pinnate, *Johnst. B. Z.* ed. 2. pl. 10. fig. 2.
Sert. polyzonias, *Mont. Coll. B. M.*
Sert. Gayi, *Lamour, Exp. Méth.* 12. t. 66. figs. 8, 9.
*a, b, c, q, r.* Presented by G. Johnston, M.D.
*d, e, f.* Devonshire, Mrs. Griffith. Presented by G. Johnston, M.D.
*g.* Northumberland. Presented by G. Johnston, M.D.
*h, i, j.* Berwick Bay. Presented by G. Johnston, M.D.
*k, l.* Ayrshire, P. W. Martin, Esq. Presented by G. Johnston, M.D.
*m.* Zetland, E. Forbes, Esq. Presented by G. Johnston, M.D.
*n.* Cornwall, R. Q. Couch, Esq. Presented by G. Johnston, M.D.
*o, p.* Cornwall, C. W. Peach. Presented by G. Johnston, M.D.

2. SERTULARELLA rugosa.

Snail trefoil Coralline, *Ellis, Corall.* 26. no. 23. t. 15. fig. *a.* A.
Sertularia rugosa, *Linn. Syst.* 1308; *Pall. Elench.* 126; *Ellis and Soland. Zooph.* 52; *Fabr. Faun. Grœnl.* 443; *Esper, Pflanz. Sert.* t. 11. figs. 1–4; *Lam. Anim. s. Vert.* ii. 121, ed. 2. ii. 149; *Flem. Brit. Anim.* 542; *Oken, Lehrb. Nat.* 92; *Johnst. Trans. Newc. Soc.* ii. 257. pl. 11. fig. 3; *Couch, Zooph. Cornw.* 6; *Corn. Faun.* iii. 18; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 63. t. 10. figs. 4–6. 468.
Clytia rugosa, *Lamour. Cor. Flex.* 204; *Templeton, Mag. Nat. Hist.* ix. 466.
La Campanulaire rugueux, *Blainv. Act.* 473.
Sertularia patagonica, *D'Orb. Amér. Mérid.*
*a, b, c.* Berwick Bay. Presented by G. Johnston, M.D.
*d.* Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.

3. SERTULARIA.

Sertularia, *Linn.*; *Lamk. Syst.* 382, 1800.
Dynamena, *Lamx.* 1812; *Blainv.* 1830.
Sertularia, sp. *Lamk.* 1816.
Sertularia β, *Johnst. Brit. Zooph.* ed. 2. 64, 1847.

* *Branches pinnate, simple.* SERTULARIA, *Lam.*

1. SERTULARIA rosacea.

Lily or Pomegranate-flowering Coralline, *Ellis, Corall.* 8. no. 7. pl. 4. fig. *a.* A; *Phil. Trans. abridg.* x. 492. pl. 12. fig. 5. *s.*–H.
Sertularia rosacea, *Linn. Syst.* 1306; *Ellis and Soland. Zooph.* 39; *Esper, Pflanz. Sert.* t. 20. figs. 1–3; *Lam. Anim. s. Vert.* ii. 119; *Johnst. Trans. Newc. Soc.* ii. 258; *Templeton, l. c.* 468; *Couch, Zooph. Cornw.* 7; *Corn. Faun.* iii. 18; *Macgillv.*

*Ann. Nat. Hist.* ix. 463; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 64. t. 11. fig. 1. 468. fig. 83; *Dalyell, Anim. Scotl.* i. 159. t. 26. figs. 1–13.

Sert. Nigellastrum, *Pall. Elench.* 129.

Sert. abietina?, *Fabr. Faun. Grœnl.* 442.

Dynamena rosacea, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 175; *Flem. Brit. Anim.* 544.

*a.* Presented by G. Johnston, M.D.

*b.* Devonshire, Mrs. Griffith. Presented by G. Johnston, M.D.

*c.* Zetland, E. Forbes, Esq. Presented by G. Johnston, M.D.

*d.* Berwick Bay. Presented by G. Johnston, M.D.

*e, f, g, h, i.* Presented by G. Johnston, M.D.

*j.* Tay, near Dundee, W. Jackson, Esq. Presented by G. Johnston, M.D.

*k.* Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.

*l.* In spirits. Presented by G. Johnston, M.D.

2. SERTULARIA pumila.

Corallina pumila repens, *Raii Syn.* i. 37. no. 19.

C. pumila erecta, ramosior, *Ibid.* 37. no. 20. pl. 2. fig. 1.

Muscus marinus, *Morris, Plant. Hist.* iii. 650. t. 9. fig. 2; *Reaumur, Mém. de l'Acad. Roy. des Sc.* 1711, 394. pl. 11. fig. 4. M.

Sea-oak Coralline, *Ellis, Corall.* 9. no. 8. pl. 5. fig. *a.* A.; *Phil. Trans.* xlviii. 632. pl. 23. no. 6; *Phil. Trans.* lvii. 437. pl. 19. fig. 11; *Phil. Trans. abridg.* x. 493. pl. 12. fig. 6. F.

Sertularia pumila, *Linn. Syst.* 1306; *Pall. Elench.* 130; *Ellis and Soland. Zooph.* 40; *Esper, Pflanz. Sert.* t. 10. figs. 1, 2; *Oliv. Zool. Adriat.* 288; *Stew. Elem.* ii. 441. pl. 12. figs. 10, 11, *copied from Ellis*; *Lam. Anim. s. Vert.* ii. 119, ed. 2. ii. 145; *Stark. Elem.* ii. 440. pl. 8. fig. 14, *from Ellis*; *Johnst. in Trans. Newc. Soc.* ii. 259; *Lister, Phil. Trans.* 1834, 371. pl. 8. fig. 3; *Templeton, l. c.* 468; *Hassall, Ann. & Mag. Nat. Hist.* vii. 284. pl. 6. fig. 5; *Couch, Zooph. Cornw.* 7; *Corn. Faun.* iii. 19; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 66. t. 11. figs. 3, 4. p. 469; *Dalyell, Anim. Scotl.* i. 161. t. 26. figs. 14–21.

Sertolara pumila, *Cavol. Pol. Mar.* 216. t. 8. figs. 8–10.

Dynamena pumila, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 179; *Flem. Brit. Anim.* 544; *Blainv. Act.* 484; *Krauss, Corall. und Zooph. der Sudsee*, 28.

Sertolara piccina, *D. Chiaje, Anim. s. Vert. Nap.* iv. 142.

*β.* Slender cells distant on filamentous Algæ.

*a.* Youghal, Miss Ball. Presented by G. Johnston, M.D.

*b.* Spurn Point. Presented by G. Johnston, M.D.

*c*. Cornwall. Presented by G. Johnston, M.D.
*d*. Westra. Presented by G. Johnston, M.D.
*e, f*. On fuci. Presented by G. Johnston, M.D.
*g*. Berwick Bay. Presented by G. Johnston, M.D.

3. SERTULARIA Evansii.

Sertularia Evansii, *Ellis and Soland. Zooph.* 58; *Lam. Anim. s. Vert.* ed. 2. ii. 154; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 67.
Dynamena Evansii, *Lamx. Cor. Flex.* 177; *Flem. Brit. Anim.* 545.
Inhab. Yarmouth, *Ellis*, 1767.

4. SERTULARIA Pinaster.

Sertularia Pinaster, *Ellis and Soland. Zooph.* 55. t. 6. fig. 6. B; *Rees, Cyclop. Vermes*, pl. 8. fig. 4; *W. Thompson, Ann. Nat. Hist.* x. 23, *and in Rep. Brit. Assoc.* 1843, 283; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 71. fig. 12. 470.
Dynamena Pinaster, *Lamx. Expos. Méth.* 12. t. 6. fig. *b*. B.
*a*. Presented by G. Johnston, M.D.
*b*. Var. gracilis. Presented by G. Johnston, M.D.

5. SERTULARIA Margareta.

Sertularia Margareta, *Hassall, Ann. & Mag. Nat. Hist.* vii. 284. pl. 6. figs. 3, 4; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 72. fig. 13. 470.
Sert. Tudori, *Ryland's MSS.*
S. Margarita, *John, MSS.*
S. Margaretta, *John, MSS.*
*a*. Mouth of the Mersey, — Tudor, Esq. Presented by G. Johnston, M.D.
*b*. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.
*c*. Presented by G. Johnston, M.D.

6. SERTULARIA fallax.

Dynamena pinnata, *Flem. Brit. Anim.* 545.
Sertularia pinnata, *Johnst. Brit. Zooph.* 127. pl. 9. figs. 5, 6; *Macgilliv. Mag. Nat. Hist.* ix. 463.
Dynamena tubiformis ?, *Lamx. Expos. Méth.* 12. pl. 66. figs. 6, 7.
Sertularia fallax, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 73. pl. 11. figs. 2, 5, 6. 469, fig. 84.
*a*. Dunstanborough, R. Embleton, Esq. with *S. fusca*. Presented by G. Johnston, M.D.
*b, c, d*. Frith of Forth, Dr. Coldstream. Presented by G. Johnston, M.D.
*e*. Whitburn, Northumberland, Miss Dale. Presented by G. Johnston, M.D.
*f*. Presented by G. Johnston, M.D.

7. SERTULARIA Tamarisca.

Sea Tamarisk, *Ellis, Corall.* 4. no. 1. pl. 1. fig. *a.* A.

Sertularia Tamarisca, *Linn. Syst.* 1307; *Pall. Elench.* 129; *Ellis and Soland. Zooph.* 36; *Oliv. Zool. Adriat.* 288; *Don's Pl. and Anim. of Forfar,* 36; *Lamx. Cor. Flex.* 188; *Lamk. Syst.* 382; *Hist. Anim. s. Vert.* ed. 2. ii. 153; *Hassall, Ann. Nat. Hist.* vi. 168; *Couch, Zooph. Cornw.* 8; *Corn. Faun.* iii. 21; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 74. pl. 13. figs. 2, 3, 4. 470.

Dynamena Tamarisca, *Flem. Brit. Anim.* 543; *Blainv. Man. Act.* 483.

*a, c.* Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

*b.* Frith of Forth. Presented by G. Johnston, M.D.

8. SERTULARIA abietina.

Abies marina, *Ger. Emac.* 1574. fig.; *Sibbald, Scot. Ill.* lib. iv. 55; *Merr. Pinn.* 1.

Corallina marina, *Raii Syn.* 35. no. 12; *Bast. Opusc. subs.* 41. t. 2. fig. 6, & t. 7. figs. 1–3, pessimæ.

Muscus marinus, *Plunk. Phytog.* t. 48. fig. 5; *Raii Hist.* i. 78.

Muscus maritimus filicis folio, *Morris, Plant. Hist.* iii. 650. t. 9. fig. 1.

Sea Fir, *Ellis, Corall.* 4. no. 2. pl. 1. fig. *b.* B.

Sertularia abietina, *Linn. Syst.* 1307; *Pall. Elench.* 133; *Müll. Zool. Dan. Prod.* 255; *Ellis and Soland. Zooph.* 36; *Esper, Pflanz. Sert.* t. 1. figs. 1, 2; *Lamk. Anim. s. Vert.* ii. 116, ed. 2. ii. 141; *Risso, l'Europ. Mérid.* v. 311; *Lamx. Cor. Flex.* 189; *Johnst. Trans. Newc. Soc.* ii. 256; *Templeton, Mag. Nat. Hist.* ix. 468; *Hassall, Ann. & Mag. Nat. Hist.* vi. 168; *Couch, Zooph. Cornw.* 9; *Corn. Faun.* 22; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 75. t. 13. fig. 1, and p. 471; *Dalyell, Anim. Scotl.* i. 150. t. 23, 24, 25.

Dynamena abietina, *Flem. Brit. Anim.* 543.

La Sertulaire sapinette, *Blainv. Act.* 480. pl. 83. fig. 6.

Sertularia abietinula, *Dalyell, Anim. Scot.* t. 7. f. 6.

*a.* Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

*b, c, f.* Frith of Forth. Presented by G. Johnston, M.D.

*d, e.* Presented by G. Johnston, M.D.

*g, h.* Berwick Bay. Presented by G. Johnston, M.D.

*i, k, l.* Presented by G. Johnston, M.D.

*j.* Dundee, W. Jackson, Esq. Presented by G. Johnston, M.D.

9. SERTULARIA filicula.

Sertularia filicula or Fern Coralline, *Ellis and Soland. Zooph.* 57. pl. 6. fig. *c.* C.; *Turt. Brit. Faun.* 215; *Rees's Cyclop.*

*Vermes*, pl. 8. fig. 1; *Jameson, Wern. Mem.* i. 564; *Lamk. Anim. s. Vert.* ii. 119; *Lamx. Cor. Flex.* 188; *Johnst. Trans. Newc. Soc.* ii. 257; *Thomp. Ann. Nat. Hist.* v. 250; *Hassall, Ann. & Mag. Nat. Hist.* vii. 284; *Couch, Zooph. Cornw.* 9; *Corn. Faun.* iii. 23; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 76. t. 14. fig. 1, and p. 471.

S. abietina β, *Pall. Elench.* 134.

Dynamena filicula, *Flem. Brit. Anim.* 544.

*a.* Frith of Forth. Presented by G. Johnston, M.D.

*b, c, d, e, f, g, h, i, j, k, l, q.* Berwick Bay. Presented by G. Johnston, M.D.

*m.* Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

*n, o, p.* Presented by G. Johnston, M.D.

** *Branches branched.* DYNAMENA.

10. SERTULARIA operculata.

Muscus marinus denticulatus, procumbens, caule tenuissimo, denticulis bijugis, *Raii Hist.* i. 79; *Morrison, Hist. Plant. Oxon.* iii. 650. t. 9. fig. 3; *Plukenet, Phytog.* t. 47. fig. 11.

Corallina muscosa, denticulata procumbens, *Raii Syn.* 36. no. 18.

Sea Hair, *Ellis, Corall.* 8. no. 6. t. 3. fig. *b.* B.

Sertularia operculata, *Linn. Syst.* 1307; *Ellis & Soland. Zooph.* 39; *Berk. Syn.* i. 216; *Esper, Pflanz. Sert.* t. 4. figs. 1, 2; *Lamk. Anim. s. Vert.* ii. 118; *Johnst. Trans. Newc. Soc.* ii. 258. pl. 11. fig. 2; *Templeton, ut supra cit.* 468; *Hassall, Ann. Nat. Hist.* vi. 168; *Couch, Zooph. Cornw.* 9; *Corn. Faun.* iii. 23; *Macgilliv. Ann. & Mag. Nat. Hist.* ix. 464; *Johnst. Hist. Brit. Zooph.* p. 77. pl. 14. fig. 2, ed. 2. 471.

Sertularia usneoides, *Pall. Elench.* 132.

Dynamena operculata, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 176; *Flem. Brit. Anim.* 544; *Blainv. Act.* 483. pl. 83. fig. 5; *Krauss, Corall. und Zoophyt. der Sudsee*, 27.

Dynamena pulchella, *D'Orbigny.*

*a, b, e, f, g.* Berwick Bay. Presented by G. Johnston, M.D.

*c.* Lancashire, J. R. Presented by G. Johnston, M.D.

*d.* Falmouth. Presented by G. Johnston, M.D.

*e.* In spirits. Presented by G. Johnston, M.D.

11. SERTULARIA argentea.

Sheep's-tailed Coralline, Corallina comis ad instar caudæ vulpinæ sparsis, *Merr, Pinn.* 29.

Corallina muscosa, alterna vice denticulata, ramulis in creberrima capillamenta sparsis, *Raii Syn.* i. 36. no. 17.

Muscus marinus denticulatus minor ramulis in creberrima capillamenta sparsis, *Plukenet, Phytog.* t. 48. fig. 3.

Muscus marinus minor denticulis alternis, *Morris, Hist. Plant. Oxon.* iii. 650. t. 9. fig. 4.
Squirrel's-tail, *Ellis, Corall.* 6. no. 4. pl. 2. fig. *c.* C.
Sertularia cupressina *β*, *Linn. Syst.* 1308.
S. cupressina, *Esper, Pflanz. Sert.* t. 3. figs. 1, 2.
S. argentea, *Ellis and Soland. Zooph.* 38; *Berk. Syn.* i. 216; *Esper, Pflanz. Sert.* t. 27. figs. 1, 2; *Lamk. Anim. s. Vert.* ii. 117; *Lamx. Cor. Flex.* 192; *Johnst. Trans. Newc. Soc.* ii. 258. pl. 11. fig. 4; *Hassall, Ann. & Mag. Nat. Hist.* vi. 168; *Couch, Zooph. Cornw.* 10; *Corn. Faun.* iii. 25; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 79. t. 15. & t. 14. fig. 3, 3. 471.
Dynamena argentea, *Flem. Brit. Anim.* 544.
Plumularia argentea, *Dalyell, Anim. Scotl.* 189. t. 37, 38.
*a.* Ireland, J. Baird, Esq. Presented by G. Johnston, M.D.
*b.* Scarborough. W. Bean, Esq. Presented by G. Johnston, M.D.
*c.* Berwick Bay. Presented by G. Johnston, M.D.
*d, e, h.* Presented by G. Johnston, M.D.
*f.* Dundee, W. Jackson, Esq. Presented by G. Johnston, M.D.
*g.* Dunstanborough, W. Embleton, Esq. Presented by G. Johnston, M.D.

12. SERTULARIA cupressina.

Sea Cypress, *Ellis, Corall.* 7. no. 5. pl. 3. fig. *a.* A.
Sertularia cupressina, *Linn. Syst.* 1308; *Ellis and Soland. Zooph.* 38; *Berk. Syn.* i. 216; *Wern. Mem.* i. 564; *Lamk. Anim. s. Vert.* ii. 118; *Lamx. Cor. Flex.* 192; *Hogg's Stock.* 32; *Templeton, l. c.* 468; *Stark. Elem.* ii. 440. pl. 8. fig. 12; *Risso, l'Europ. Mérid. v.* 311; *Hassall, Ann. & Mag. Nat. Hist.* vi. 168; *Macgilliv. ibid.* ix. 464; *Couch, Zooph. Cornw.* 11; *Corn. Faun.* iii. 26; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 80. t. 16. 471.
Dynamena cupressina, *Flem. Brit. Anim.* 543.
*a, c, d.* Presented by G. Johnston, M.D.
*b.* Cork, J. V. Thompson, Esq. Presented by G. Johnston, M.D.
*e.* Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

## 4. NIGELLASTRUM.

Nigellastrum *a*, *Oken, Lehrb. Nat.* 93, 1815.
Dynamena, sp. *Lamx.* 1812; *Fleming*, 1828; *Blainv.* 1830.
Sertularia *β*, sp. *Johnst.*

1. NIGELLASTRUM nigra.

Sertularia nigra, *Pall. Elench.* 135; *Couch, Zooph. Cornw.* 8; *Corn. Faun.* iii. 20. pl. 6; *Johnst. Hist. Brit. Zooph.* ed. 2. pl. 12. figs. 1, 2. p. 68.

Nigellastrum nigra, *Oken, Lehrb. Nat.* 93.

*a.* Cornwall, R. Q. Couch, Esq. Presented by G. Johnston, M.D.

*b.* Devonshire, Mrs. Griffith. Presented by G. Johnston, M.D.

2. NIGELLASTRUM pinnata.

Corallina abietis forma, *Bast. Opusc. Subs.* i. 41. t. 1. fig. 6 (bad).

Sertularia pinnata, *Pall. Elench.* 136; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 69. t. 12. figs. 3, 4.

S. fuscescens, *Turt. Gmel.* iv. 677; *Turt. Brit. Faun.* 213; *Lamx. Cor. Flex.* 195.

Nigellastrum pinnatum, *Oken, Lehrb. Nat.* 93.

*a.* Torquay, Mrs. Griffith. Presented by G. Johnston, M.D.

*b.* Torquay, Miss Griffith. Presented by G. Johnston, M.D.

3. NIGELLASTRUM fusca.

Sertularia nigra, *Jameson, Wern. Mem.* i. 565; *Johnst. Brit. Zooph.* 128; *Macgilliv. Ann. Nat. Hist.* ix. 463.

Dynamena nigra, *Flem. Brit. Anim.* 545.

Sertularia fusca, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 70, woodcut no. 6 on p. 57, and fig. 11. 470.

*a.* Dunstanborough, R. Embleton, Esq. Presented by G. Johnston, M.D.

*Doubtful Natives.*

1. Sertularia cupressoides.

Inhab. ——? Frith of Forth, *Jameson, Wern. Mem.* i. 564.

2. Sertularia elongata.

Inhab. Australasia. "English coast," Miss Warne. Corallina, p. 83. t. 5. fig. 3.

3. Sertularia pectinata.

Inhab. Australasia. "English coast," Miss Warne. Corallina, p. 83.

5. THUIARIA.

Thuiaria, *Flem.* 1828; *Johnst. Brit. Zooph.* ed. 2. 83; not *Thuarea* (in Botany).

Biseriaria, *Blainv.* 1830.

Cellaria, sp. *Lamk. Hist. Anim. s. Vert.*

Nigellastrum *a* & *c*, *Oken, Lehrb. Nat.* 93, 1815.

1. THUIARIA thuja.

Planta marina equiseti facie, *Sib. Scot. Ill.* ii. lib. iv. 55. t. 12. fig. 1.
Fucus equiseti facie, *Ibid.* lib. i. 56; *Raii Syn.* 50. no. 47.
Bottle-brush Coralline, *Ellis, Corall.* 10. no. 9. pl. 5. fig. *b.* B.
Sertularia thuja, *Linn. Syst.* 1308; *Pall. Elench.* 140; *Ellis & Soland. Zooph.* 41; *Berk. Syn.* i. 217; *Esper, Pflanz. Sert.* t. 22. figs. 1–3; *Turt. Gmel.* iv. 678; *Wern. Mem.* i. 564; *Turt. Brit. Faun.* 213; *Stew. Elem.* ii. 442; *Lamx. Cor. Flex.* 193; *Hogg's Stock.* 32; not *O. Fabr. Faun. Grœnl.* 444.
Cellaria thuia, *Lamk. Anim. s. Vert.* ii. 339; *Stark. Elem.* ii. 439.
Nigellastrum thuja, *Oken, Lehrb. Nat.* 93.
Thuiaria thuia, *Flem. Brit. Anim.* 545; *Johnst. Trans. Newc. Soc.* ii. 261; *Couch, Zooph. Cornw.* 11; *Corn. Faun.* iii. 27. pl. 5; *Macgilliv. Ann. & Mag. Nat. Hist.* ix. 464; *W. Thompson, ibid.* xiii. 440; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 83. t. 17, 18. figs. 1, 2. 471.
Biseriaria thuia, *Blainv. D. S. N.* lx. 446; *Actin.* 482. pl. 81. fig. 3.
*a, b, c.* Presented by G. Johnston, M.D.
*d.* River Tay. Presented by Capt. Ducane, R.A.

2. THUIARIA articulata.

Sea Spleenwort or Polypody, *Ellis, Cor.* 11. no. 10. pl. 6. fig. *a.* A.
Sertularia articulata, *Pall. Elench.* 137; *Esper, Pflanz. Sert.* t. 8. figs. 1, 2.
Thuiaria articulata, *Flem. Brit. Anim.* 545; *Hassall, Ann. Nat. Hist.* vii. 284. pl. 7. figs. 1, 2; *Couch, Zooph. Cornw.* 12; *Corn. Faun.* iii. 28. pl. 4; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 85. t. 18. figs. 3, 4. 471.
S. Lonchitis, *Ellis and Soland. Zooph.* 42.
Cellaria Lonchitis, *Lamk. Anim. s. Vert.* ii. 139, ed. 2. ii. 186.
S. Lichenastrum, *Berk. Syn.* i. 219; *Turt. Brit. Faun.* 216; *Stew. Elem.* ii. 447.
Nigellastrum articulatum, *Oken, Lehrb. Nat.* 93.
*a.* Isle of Man, E. Forbes, Esq. Presented by G. Johnston, M.D.
*b, c.* Cornwall. Presented by G. Johnston, M.D.
*d.* Near Liverpool. Presented by G. Johnston, M.D.
*e, g.* Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.
*f.* Berwick Bay. Presented by G. Johnston, M.D.

6. NEMERTESIA.

Nemertesia, *Lamx. Cor. Flex.* 163, 1812.
Nigellastrum *d*, *Oken, Lehrb. Nat.* 93, 1815.
Antennularia, *Lamk. Hist. Anim. s. Vert.* 1816; *Blainv.* 1830.
Antennulaire, *Lamk.* 1812, no char.

1. NEMERTESIA antennina.

Corallina astaci corniculorum æmula, *Raii Syn.* i. 34. no. 10.
Corallina affinis, non ramosa, *Pluken. Almag. Bot.* 119.
Muscus marinus s. coralloides non ramosus, erectus, *Pluken. Phytog.* t. 48. fig. 6.
Lobster's-horn Coralline or Sea-beard, *Ellis, Corall.* 15. no. 14. pl. 9. fig. *a.* A. B; *Phil. Trans.* xlviii. 630. t. 22. no. 3; *Phil. Trans. abridg.* x. 491. pl. 12. fig. 3. C.
Sertularia antennina, *Linn. Syst.* 1310; *Pall. Elench.* 146; *Ellis and Soland. Zooph.* 45; *Oliv. Zool. Adriat.* 289; *Berk. Syn.* i. 217; *Esper, Pflanz. Sert.* t. 23. figs. 1–4; *D. Chiaje, Anim. s. Vert. Nap.* iv. 144; *Hogg's Stock.* 33.
Nigellastrum antenninum, *Oken, Lehrb. Nat.* 93.
Nemertesia antennina, *Lamx. Cor. Flex.* 163; *Dalyell, Anim. Scotl.* 198. t. 39, 40.
Antennularia antennina, *Flem. Brit. Anim.* 546; *Johnst. Trans. Newc. Soc.* ii. 260; *Hassall, Ann. & Mag. Nat. Hist.* vi. 168. pl. 5. fig. 3; *Macgilliv. ibid.* ix. 464; *Couch, Zooph. Cornw.* 13; *Corn. Faun.* iii. 29. pl. 7; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 86. t. 19. figs. 1, 3. 471.
Ant. indivisa, *Lamk. Anim. s. Vert.* ii. 123, ed. 2. ii. 156; *Templeton, Mag. N. H.* ix. 468; *Blainv. Act.* 486. pl. 83. fig. 3.
Plumularia verticillata, *J. V. Thompson, MSS.*

*a.* Dry on paper. Cork, J. V. Thompson, Esq. Presented by G. Johnston, M.D.
*b.* Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.
*c, d, e, f.* Devonshire, Mr. Griffith. Presented by G. Johnston, M.D.
*g, h.* Frith of Forth. Presented by G. Johnston. M.D.
*i.* Mouth of the Tay, Dundee. Presented by G. Johnston, M.D.
*k, l.* Presented by G. Johnston, M.D.
*m, n.* In spirits. Presented by G. Johnston, M.D.

2. NEMERTESIA ramosa.

Corallina ramosa cirris obsita, *Raii Syn.* 35. no. 11; *Ellis, Corall.* 16. pl. 9. *b* and *c.*
Sertularia antennina *β*, *Linn. Syst.* 1310.
Nemertesia ramosa, *Lamx. Cor. Flex.* 164; *Dalyell, Anim. Scotl.* 198. t. 39. figs. 7, 17. t. 40.
Antennularia ramosa, *Lamk. Anim. s. Vert.* ii. 123, ed. 2. ii. 156; *Stark. Elem.* ii. 440; *Templeton, lib. cit.* 468; *Hassall, Ann. & Mag. Nat. Hist.* vi. 168. pl. 5. figs. 1, 2; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 88. t. 20. 464, 471.
Sertularia seticornis, *Hogg's Stock.* 33.

Antennularia arborescens, *Hassall, Ann. Nat. Hist.* xi. 111.
A. antennina, var. *Johnst. Brit. Zooph.* ed. 1. 140. pl. 16. fig. 2; *Couch, Corn. Faun.* 29.
*a, b, c, e.* Dry. Devonshire, Mrs. Griffith. Presented by G. Johnston, M.D.
*d.* Dry. Devonshire, Miss Griffith. Presented by G. Johnston, M.D.
*f.* Belfast Bay, W. Thompson, Esq. Presented by G. Johnston, M.D.
*g, h.* Presented by G. Johnston, M.D.
*i.* Ayrshire, Rev. D. Landsborough. Presented by G. Johnston, M.D.

### 7. Aglaophenia.

Aglaophenia, *Lamx.* 1812, charact.
Plumulaire, *Lamk.* 1812 (no char.).
Pennaria, sp. *Oken, Lehrb. Nat.* 94, 1815; *Goldfuss*, not *Ehrenb.*
Plumularia, *Lamk.* 1816; *Blainv.* 1830.

#### * *Stem a single tube.* Plumularia.

1. Aglaophenia falcata.

Muscus marinus spiralis pennatus, *Merr. Pinn.* 81.
Corallina muscosa pennata, ramulis et capillamentis falcatis, *Raii Syn.* i. 36. no. 16.
Muscus pennatus, ramulis et capillamentis falcatis, *Pluken. Phytog.* t. 47. fig. 12.
Muscus maritimus pennatus, ramulis et capillamentis falcatis, *Morris, Plant. Hist. Ox.* iii. 650. t. 9. fig. 2.
Sickle Coralline, *Ellis, Corall.* 12. no. 11. pl. 7. fig. *a.* A. & pl. 38. fig. 6.
Corallina erecta pinnata, *Bast. Opusc. Subs.* 41. pl. 2. fig. 5, male.
Sertularia falcata, *Linn. Syst.* 1309; *Pall. Elench.* 144; *Ellis and Soland. Zooph.* 42; *Esper, Pflanz. Sert.* t. 2. figs. 1, 2; *Berk. Syn.* i. 217; *Blumenb. Man.* 273.
Aglaophenia falcata, *Lamx. Cor. Flex.* 174.
Plumularia falcata, *Lamk. Anim. s. Vert.* ii. 125, ed. 2. ii. 160; *Grant, Edinb. New Phil. Journ.* i. 155; *Flem. Brit. Anim.* 546; *Johnst. Trans. Newc. Soc.* ii. 259; *Hassall, Ann. and Mag. Nat. Hist.* vi. 169; *Couch, Zooph. Cornw.* 14; *Corn. Faun.* iii. 130; *Johnst. Hist. Brit. Zooph.* p. 90. t. 21. figs. 1, 2. ed. 2. 471; *Dalyell, Anim. Scotl.* i. 176. t. 33.
Pennaria falcata, *Oken, Lehrb. Nat.* 94.
*a, b, c, d, l, m, n, q.* Berwick Bay. Presented by G. Johnston, M.D.
*e, f, g.* Frith of Forth. Presented by G. Johnston, M.D.

*h.* Cork, J. V. Thompson, Esq. Presented by G. Johnston, M.D.
*i, j.* Presented by G. Johnston, M.D.
*k.* Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.
*o.* Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.
*p.* The Tay, Dundee, W. Jackson, jun. Esq., with *Notamia loriculata*. Presented by G. Johnston, M.D.
*r.* The Tay. Presented by Capt. Ducane, R.A.

2. AGLAOPHENIA pluma.

The podded Coralline, *Ellis, Corall.* 13. no. 12. pl. 7. fig. *b.* B.
Sertularia pluma, *Linn. Syst.* 1309; *Pall. Elench.* 149; *Ellis and Soland. Zooph.* 43; *D. Chiaje, Anim. s. Vert. Nap.* iv. 145; *Esper, Pflanz. Sert.* t. 7. figs. 1, 2; *Oliv. Zool. Adriat.* 289; *Lister, Phil. Trans.* 1834, 369. pl. 8. fig. 2.
Aglaophenia pluma, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 170; *Corall.* 75; *Krauss, Corall. und Zoophyt. der Sudsee*, 25.
Plumularia cristata, *Lamk. Anim. s. Vert.* ii. 125, ed. 2. ii. 161; *Templeton, Mag. Nat. Hist.* ix. 467; *Risso, l'Europ. Mérid.* v. 313; *Hassall, Ann. & Mag. Nat. Hist.* vi. 169 & vii. 285; *Couch, Zooph. Cornw.* 15; *Corn. Faun.* iii. 31. pl. 8; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 92. figs. 15, 16. t. 23. figs. 1–3. 471.
Pl. pluma, *Flem. Brit. Anim.* 546.
Sertolaria pluma, *Cavol. Pol. Mar.* 210. t. 8. figs. 5–7.
Pennaria pluma, *Oken, Lehrb. Nat.* 94.
*a.* Presented by G. Johnston, M.D.
*b, c.* Ayrshire, P. W. Martin, Esq. Presented by G. Johnston, M.D.
*d, f, g, k.* Cornwall. Presented by G. Johnston, M.D.
*e.* Ayrshire, P. W. Maclagan, M.D. Presented by G. Johnston, M.D.
*h.* Cork, J. V. Thompson, Esq. Presented by G. Johnston, M.D.
*j.* Bangor, co. Down, W. Thompson, Esq. Presented by G. Johnston, M.D.
*l.* Var. Presented by G. Johnston, M.D.
*m.* Presented by G. Johnston, M.D.

3. AGLAOPHENIA Pennatula.

Sertularia Pennatula, *Ellis and Soland. Zooph.* 56. t. 7. figs. 1, 2; *Flem. Edin. Phil. Journ.* ii. 83.
Aglaophenia Pennatula, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 168; *Krauss, Corall. und Zoophyt. der Sudsee*, 25.

Plumularia Pennatula, *Lamk. Anim. s. Vert.* ii. 128, ed. 2. ii. 165; *Flem. Brit. Anim.* 546; *W. Thompson, Ann. Nat. Hist.* v. 251; *Couch, Zooph. Cornw.* 16; *Corn. Faun.* iii. 33; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 95. t. 22. figs. 1, 2.

*a.* Youghal, Miss M. Ball. Presented by G. Johnston, M.D.
*b.* Cornwall. Presented by G. Johnston, M.D.
*c.* J. E. Gray, Esq. Presented by G. Johnston, M.D.

4. AGLAOPHENIA pinnata.

Fucoides setis minimis indivisis constans, *Raii Syn.* i. 39. no. 7. t. 2. fig. 2. lit. *a* (*injured and deprived of the pinnæ*).
Sertularia pinnata, *Linn. Syst.* 1312; *Ellis and Soland. Zooph.* 46; *Oliv. Zool. Adriat.* 290.
Aglaophenia pinnata, *Lamx. Cor. Flex.* 172.
Plumularia pinnata, *Lamk. Anim. s. Vert.* ii. 127, ed. 2. ii. 164; *Risso, l'Europ. Mérid.* v. 313; *Johnst. Trans. Newc. Soc.* ii. 260, *and Mag. Nat. Hist.* vi. 498; *Hassall, Ann. & Mag. Nat. Hist.* vii. 285; *Macgilliv. ibid.* ix. 464; *Couch, Zooph. Cornw.* 17; *Corn. Faun.* iii. 34; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 96. t. 21. figs. 4, 5. 471; *Dalyell, Anim. Scotl.* 179. t. 34.

*a.* Dry, free. Presented by G. Johnston, M.D.
*b.* Dry, on paper. (Cork, J. V. Thompson?). Presented by G. Johnston, M.D.
*c, d, e, f, g.* Berwick Bay. Presented by G. Johnston, M.D.
*h.* Cornwall, deep water. Presented by G. Johnston, M.D.
*i.* Norfolk, W. C. Peach, Esq. Presented by G. Johnston, M.D.
*j.* Zetland, E. Forbes, Esq. Presented by G. Johnston, M.D.
*k.* Tynemouth, E. Forbes, Esq. Presented by G. Johnston, M.D.
*l.* In spirits. Presented by G. Johnston, M.D.

5. AGLAOPHENIA setacea.

Sea Bristles, *Ellis, Corall.* 19. no. 16. pl. 11. fig. *a*, A.
Corallina setacea, *Ellis, Corall.* 38. fig. 4.
Sertularia pinnata *β*, *Linn. Syst.* 1312; *D. Chiaje, Anim. s. Vert. Nap.* iv. 144.
S. setacea, *Pall. Elench.* 148; *Ellis and Soland. Zooph.* 47; *Lister, Phil. Trans.* 1834, 371. pl. 8. fig. 4.
Aglaophenia setacea, *Lamx. Cor. Flex.* 272.
Plumularia setacea, *Lamk. Anim. s. Vert.* ii. 129, ed. 2. ii. 165; *Flem. Brit. Anim.* 547; *Templeton, Mag. Nat. Hist.* ix. 467; *Stark, Elem.* ii. 440; *Risso, l'Europ. Mérid.* v. 313; *Hassall, Ann. & Mag. Nat. Hist.* vii. 285; *Couch, Zooph. Cornw.* 16; *Corn. Faun.* iii. 33; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 97. t. 22. figs. 3–5. 471.

Pennaria setacea, *Oken, Lehrb. Nat.* 94.
*a, b.* Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.
*c.* Mount's Bay, Cornwall, R. Q. Couch, Esq. Presented by G. Johnston, M.D.
*d.* ——— ? Presented by G. Johnston, M.D.
*e.* Glendore Bay, co. Cork, W. Thompson, Esq. Presented by G. Johnston, M.D.

6. AGLAOPHENIA echinulata.

Plumularia echinulata, *Lamk. Anim. s. Vert.* ii. 126, ed. 2. ii. 162; *Blainv. Act.* 477; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 464. figs. 80, 81.
*a, b, c.* Fowey Harbour, Cornwall (R. Q. Couch, Esq.). Presented by G. Johnston, M.D.

7. AGLAOPHENIA Catharina.

Plumularia Catharina, *Johnst. Mag. Nat. Hist.* vi. 498. figs. 61, 62; *Hassall, Ann. & Mag. Nat. Hist.* vii. 285; *Macgilliv. ibid.* ix. 465; *Couch, Zooph. Cornw.* 18; *Corn. Faun.* iii. 35; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 97, fig. 17, fig. 1 (page 3), p. 465, 471.
*a, b, c, d, e.* Berwick Bay. Presented by G. Johnston, M.D.

8. AGLAOPHENIA fascis.

Plumularia? fascis, *Dalyell, Anim. Scotl.* 186. t. 36.
Inhab. Scotland, *Dalyell.*

** *Stem composed of many parallel tubes.* AGLAOPHENIA.

9. AGLAOPHENIA myriophyllum.

Corallina fruticosa pennata, *Pétiv. Plant. Ital.* t. 2. fig. 11.
Pheasant's-tail Coralline, *Ellis, Corall.* 14. no. 13. t. 8. fig. *a*, A.
Sertularia myriophyllum, *Linn. Syst.* 1309; *Pall. Elench.* 153; *Ellis and Soland. Zooph.* 44; *Berk. Syn.* i. 217; *Don's Pl. and Anim. of Forfar*, 36; *Esper, Pflanz. Sert.* t. 5. figs. 1–3; *Oliv. Zool. Adriat.* 288; *D. Chiaje, Anim. s. Vert. Nap.* iv. 145.
Aglaophenia myriophyllum, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 168.
Plumularia myriophyllum, *Lam. Anim. s. Vert.* ii. 124, ed. 2. ii. 159; *Flem. Brit. Anim.* 547; *Templeton, Mag. Nat. Hist.* ix. 466; *Stark, Elem.* ii. 440; *Risso, l'Europ. Mérid.* v. 312; *Blainv. Act.* 477. pl. 83. fig. 4; *Landsborough, Scott. Christ. Herald for April* 1840, 244; *Hassall, Ann. & Mag. Nat. Hist.* vii. 285; *Couch, Zooph. Cornw.* 18; *Corn. Faun.* iii. 36. pl. 9; *Johnst. Hist. Brit. Zooph.* p. 99. t. 23. figs. 4, 5. p. 118. fig. 24.
Pennaria myriophyllum, *Oken, Lehrb. Nat.* 94.
*a, b, c.* Cornwall. Presented by G. Johnston, M.D.

*d.* Zetland, E. Forbes, Esq. Presented by G. Johnston, M.D.
*e.* Isle of Man, E. Forbes, Esq. Presented by G. Johnston, M.D.
*f.* Devonshire, "with capsules," Mrs. Griffith. Presented by G. Johnston, M.D.
*g.* Devon coast. Presented by G. Johnston, M.D.

10. AGLAOPHENIA frutescens.

Sertularia Gorgonia, *Pall. Elench.* 158.
S. frutescens, *Ellis and Soland. Zooph.* 55. pl. 6. fig. *a*, A. & pl. 9. figs. 1, 2, *encrusted with a Gorgonia*; *Rees, Cyclop. Vermes*, pl. 8. fig. 3; *Turt. Brit. Faun.* 214; *Hogg's Stock.* 33.
Aglaophenia frutescens, *Lamx. Cor. Flex.* 173; *Krauss, Corall. und Zoophyt. der Sudsee*, 26.
Plumularia frutescens, *Flem. Brit. Anim.* 547; *Lamk. Anim. s. Vert.* ed. 2. ii. 166; *Blainv. Act.* 477; *Hassall, Ann. & Mag. Nat. Hist.* vii. 285. pl. 8. fig. 1; *Couch, Zooph. Cornw.* 19; *Corn. Faun.* iii. 37; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 100. t. 24. figs. 2, 3. 472.
Pennaria fruticans, *Oken, Lehrb. Nat.* 94.
*a.* Dry. Cullercoats, Northumberland, J. Alder, Esq. Presented by G. Johnston, M.D..
*b.* Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

8. EPISTOMIA.

Epistomia, *Flem. Brit. Anim.* 541, 1828.
Dynamena, sp. *Lamx.* 1816; *Blainv.* 1830.
Notamia, sp. *Flem.* 1828.
Gemicellaria, sp. *Blainv.* 1830.
Sertularia, sp. *Gmelin.*
Cellularia, sp. *Pallas.*

1. EPISTOMIA Bursaria.

Shepherd's-purse Coralline, *Ellis, Corall.* 41. n. 8. t. 22. fig. *a*, A; *Johnst. Brit. Zooph.* ed. 2. 294.
Sertularia Bursaria, *Linn. S. N.* 1314; *Berk. Syn.* i. 219.
Cellularia Bursaria, *Pall. Elench.* 65; *Ellis, Phil. Trans.* lvii. 437. t. 19. fig. 12.
Cellaria Bursaria, *Ellis & Soland. Zooph.* 25; *Lamk. Hist. Anim. s. Vert.* ed. 2. ii. 189.
Dynamena Bursaria, *Lamx. Cor.* 179; *Blainv. D. S. N.* lx. 448.
Notamia Bursaria, *Flem. Brit. Anim.* 541.
Gemicellaria Bursaria, *Blainv. Dict. S. N.* lx. 425; *Man. Act.* 461.
Sert. Bursa, *Turt. Brit. Faun.* 216.
*a, b, c.* Dry, on Plumularia. Walton-on-the-Naze. Presented by G. Johnston, M.D.

## Fam. Campanulariadæ.

Campanulariadæ, *Johnst. in Trans. Berw. Club*, p. 107; *Gray, Syn. Brit. Mus.* 76; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 101.
Les Campanulaires, *Van Beneden, Mem.* p. 11.
Sertulariæ pars, *Linn., Pall., Solander.*
Campanularia, *Lamk. Anim. s. Vert.* ii. 112.
Sertularies pars, *Lamx. Expos. Méthod.* 9.
Sertulariadæ, sect. ii. *Flem. Brit. Anim.* 538.
Sertularia pars, *Blainv. Act.* 472.

### 1. Laomedea.

Laomedea, *Lamx. Bull. Soc. Phil.* iii. 1812.
Campanularia, sp. *Lamk. Hist. Anim. s. Vert.* ii. 1816.
Monopyxis, *Ehrenb. Corall. Roth. Meer.* 73.
Halecium β, *Oken, Lehrb. Nat.* 92, 1815.
Sertularia β, *Oken, Lehrb. Nat.* 92, 1818.

### * Laomedea.

1. Laomedea dichotoma.

Sea-thread Coralline, *Ellis, Corall.* 21. no. 18. pl. 12. fig. *a*, A.
Corallina filiformis ramosa, pedunculis calyculorum contortis, *Ellis, Corall.* pl. 38. fig. 3.
Sertularia dichotoma, *Linn. Syst.* x. 812; *Linn. Syst.* 1312; *Ellis and Soland. Zooph.* 48; *Berk. Syn.* i. 218; *Jameson, Wern. Mem.* i. 564; *Turt. Brit. Faun.* 215; *Stew. Elem.* ii. 446; *D. Chiaje, Anim. s. Vert. Nap.* iv. 146; *Oliv. Zool. Adriat.* 289.
Sertularia longissima, *Pall. Elench.* 119; *Oken, Lehrb. Nat.* 92.
Monopyxis longissima, *Ehrenb. Corall. Roth. Meer.* 73.
Laomedea dichotoma, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 207; *Risso, l'Europ. Mérid.* v. 314; *Blainv. Act.* 474; *Couch, Zooph. Cornw.* 20; *Corn. Faun.* iii. 37; *Macgilliv. Ann. & Mag. Nat. Hist.* ix. 465; *Johnst. Hist. Brit. Zooph.* p. 102. t. 26. figs. 1, 2, ed. 2. 466. fig. 82. 472.
Campanularia dichotoma, *Lamk. Anim. s. Vert.* ii. 113, ed. 2. ii. 132; *Flem. Brit. Anim.* 548; *Risso, l'Europ. Mérid.* v. 309; *Grant, Edinb. New Phil. Journ.* i. 151; *Grant. Cyclop. Anat. and Phys.* i. 108. fig. 30; *Grant, Comp. Anat.* 10. fig. 5; *Johnst. Trans. Newc. Soc.* ii. 255; *Stark, Elem.* ii. 441; *Templeton, Mag. Nat. Hist.* ix. 469; *Dalyell, Anim. Scotl.* i. 212. t. 41.
Var. α. Polypidom dichotomously branched, diffuse.
Var. β. Polypidom slender and elongate, pyramidal, alternately branched; the branches erecto-patent or spreading.
Var. γ. Polypidom irregularly branched, the branchlets pinnate.

*a. b.* Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.
*c.* Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.
*d.* Berwick Bay. Presented by G. Johnston, M.D.
*e, f.* Devonshire, Mrs. Griffith. Presented by G. Johnston, M.D.
*g, h.* Fragment on paper and talc. Presented by G. Johnston, M.D.
*i.* Devonshire, on talc, Mrs. Griffith. Presented by G. Johnston, M.D.
*j, k, l.* Berwick Bay. Large, dark. Presented by G. Johnston, M.D.
*m, n.* Southwold, four fathoms, May 1845. Presented by G. Johnston, M.D.
*o.* Magilligan, co. Londonderry. Presented by G. Johnston, M.D.

** MONOPYXIS.

2. LAOMEDEA geniculata.

Fucoides setaceum tenuissime alatum, *Raii Syn.* i. 38. no. 6. pl. 2. fig. 2; *Ellis, Phil. Trans. abridg.* x. 491. pl. 12. fig. 1. *a*, A.
Knotted-thread Coralline, *Ellis, Corall.* 22. no. 19. pl. 12. *b*, B.
Sertularia geniculata, *Linn. Syst.* 1312; *Pall. Elench.* 117; *Müll. Zool. Dan.* iii. 61. t. 117. figs. 1–4.; *Ellis and Soland. Zooph.* 49; *Lam. Anim. s. Vert.* ii. 120, ed. 2. ii. 149; *D. Chiaje, Anim. s. Vert. Nap.* iv. 143.
Laomedea geniculata, *Lamx. Cor. Flex.* 208; *Couch, Zooph. Cornw.* 20; *Corn. Faun.* 38. pl. 10. fig. 1; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 103. t. 25. figs. 1, 2. 472.
Campanularia geniculata, *Flem. Brit. Anim.* 548; *Johnst. Trans. Newc. Soc.* ii. 255; *Van Beneden, Camp.* 34. pl. 3. figs. 1–6.
Monopyxis geniculata, *Ehrenb. Corall. des Roth. Meer.* 73.
*a.* Ayrshire, Rev. D. Landsborough. Presented by G. Johnston, M.D.
*b.* Ayrshire, P. W. Martin, Esq. Presented by G. Johnston, M.D.
*c.* Carrickfergus near Belfast, W. Thompson, Esq. Presented by G. Johnston, M.D.
*d.* Presented by G. Johnston, M.D.
*e, f, g.* On *Fucus* with Flustra membranacea, Berwick Bay. Presented by G. Johnston, M.D.
*h.* Ayrshire, P. W. Maclagan, M.D. Presented by G. Johnston, M.D.

3. LAOMEDEA gelatinosa.

Var. *α*. Stem a single tube, subramose.
Var. *β*. Stem compound, ramose, *Johnst. B. Z.* pl. 27. fig. 1.
Corallina confervoides gelatinosa alba, geniculis crassiusculis pellucidis, *Raii Syn.* i. 34. no. 7.
Corallina filiformis ramosa pedunculis calyculorum contortis, *Ellis, Corall.* pl. 38. fig. 3, & p. 23. pl. 12. fig. *c*, C.
Sertularia gelatinosa, *Pall. Elench.* 116; *Stew. Elem.* vi. 444.
Halecium gelatinosa, *Oken, Lehrb. Nat.* 92.
Laomedea gelatinosa, *Lamx. Corall.* 92; *Thompson, Ann. Nat. Hist.* v. 251; *Hassall, ibid.* vi. 169; *Couch, Zooph. Cornw.* 21; *Corn. Faun.* iii. 39. pl. 10. fig. 2; *Johnst. Hist. Brit. Zooph.* p. 105. t. 25. figs. 3, 4, ed. 2. 472.
Campanularia gelatinosa, *Johnst. Trans. Newc. Soc.* ii. 254; *Van Beneden, Campan.* 33. pl. 1, 2.
Sertularia dichotoma, in part, *Lister, Phil. Trans.* 1834, 372, 375. pl. 10. fig. 1.
La Sertolara dicotoma, *Cavol. Pol. Mar.* 194. t. 7. figs. 5–8.
*a*. Dublin. Presented by G. Johnston, M.D.
*b*. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.
*c*. In spirits. Presented by G. Johnston, M.D.

4. LAOMEDEA Flemingii.

Campanularia Flemingii, *Milne Edwards.*
Sertularia gelatinosa, *Flem. Edinb. Phil. Journ.* ii. 84; *Phil. Zool.* ii. 616. t. 5. fig. 3.
Campanularia gelatinosa, *Flem. Brit. Anim.* 549.
Laomedea gelatinosa, *Johnst. Brit. Zooph. explan. plates*, t. 25.
Inhab.

5. LAOMEDEA obliqua.

Laomedea obliqua, *Saunders in litt.* 5. *Jan.* 1841; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 106. t. 28. fig. 1.
Campanularia, *Lister, Phil. Trans.* 1834, 372. pl. 8. fig. 5.
*a*. Brighton, 1838, W. W. Saunders, Esq. Presented by G. Johnston, M.D.

## 2. CAPSULARIA.

Capsularia, *Cuvier, Tab. Elem.* 665, 1798.
Campanularia, *Lamk. Hist.* 1816.
Campanulaire, *Lamk. Ext. du Cour.* 1812 (no charact.).
Laomedea, sp. *Blainv.*
Lafea, *Lamx. Exp. Méth.*
Clytea, *Lamx.* 1812 (charact.).
Halecium *β*, sp. *Oken, Lehrb. Nat.* 92, 1815.
Sertularia *β*, *Oken, Lehrb. Nat.* 92, 1815.

## Campanularia.

1. Capsularia volubilis.

Small climbing Coralline with bell-shaped cups, *Ellis, Corall.* 24. no. 21. pl. 14. fig. *a*, A; *Phil. Trans.* xlviii. 629. pl. 22. no. 2; *Phil. Trans. abridg.* x. 491. pl. 12. fig. 2. B.

Polyporum species, *Bast. Opusc. Subs.* i. p. 41. t. 2. fig. 1 *a*. & fig. 7 *b*.

Sertularia volubilis, *Linn. Syst.* 1311; *Ellis and Soland. Zooph.* 51. pl. 4. figs. *e, f*, E, F; *copied into Kirby's Bridgw. Treat.* i. pl. 2. fig. 2; *Berk. Syn.* i. 218; *Oken, Lehrb. Nat.* 92; *Fabr. Faun. Grœnl.* 444; *Esper, Pflanz. Sert.* t. 30. figs. 1, 2; *Turt. Brit. Faun.* 214; *Stew. Elem.* ii. 444.

S. uniflora, *Pall. Elench.* 121; *Ellis, Phil. Trans.* lvii. 437. pl. 19. fig. 9.

Clytia volubilis, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 202; *Expos. Méth.* 13. pl. 4. figs. *e*, F.

Campanularia volubilis, *Lamk. Anim. s. Vert.* ii. 113, ed. 2. ii. 132; *Flem. Brit. Anim.* 548; *Risso, l'Europ. Mérid.* v. 309; *Johnst. Trans. Newc. Soc.* ii. 255; *Templeton, Mag. Nat. Hist.* ix. 466; *Couch, Zooph. Cornw.* 22; *Corn. Faun.* 40. pl. 11. fig. 1; *Van Beneden, Campan.* 36. pl. 3. figs. 7, 8; *Blainv. Act.* 472. pl. 84. fig. 2; *Johnst. Hist. Brit. Zooph.* p. 108. fig. 18, ed. 2. 472.

*a*. Berwick Bay. Presented by G. Johnston, M.D.

*b*. On *Plumularia falcata*. Torquay, Mrs. Griffith, Oct. 1846. Presented by G. Johnston, M.D.

*c*. Donaghadee, Sept. 1840. G. Hyndman, Esq. Presented by G. Johnston, M.D.

*d*. With vesicles. Goran, 30th Nov. 1844. Presented by G. Johnston, M.D.

*e, f*. In spirits. Presented by G. Johnston, M.D.

2. Capsularia integra.

Campanularia integra, *Macgilliv. Ann. & Mag. Nat. Hist.* ix. 465; *Johnst. Hist. Brit. Zooph.* ed. 2. 109. t. 28. fig. 2.

Camp. lævis?, *Couch, Corn. Faun.* 42.

*a*. Hastings. W. W. Saunders, Esq., 1840. Presented by G. Johnston, M.D.

3. Capsularia Syringa.

Creeping Bell-Coralline, *Ellis, Corall.* 25. pl. 14. fig. *b*, B.

Sertularia Syringa, *Linn. Syst.* 1311; *Oken, Lehrb. Nat.* 92; *Berk. Syn.* i. 218.

S. volubilis, *Pall. Elench.* 122.
S. repens, *Ellis and Soland. Zooph.* 52.
Clytia Syringa, *Lamx. Bull. Soc. Phil.* 1812, iii. 185; *Cor. Flex.* 203.
Campanularia Syringa, *Lamk. Anim. s. Vert.* 113, ed. 2. ii. 132; *Flem. Brit. Anim.* 548; *Johnst. Trans. Newc. Soc.* ii. 256; *Thompson, Ann. Nat. Hist.* v. 251; *Macgilliv. Ann. & Mag. Nat. Hist.* ix. 465; *Couch, Zooph. Cornw.* 22; *Corn. Faun.* 41. pl. 11. fig. 2; *Hassall, Ann. & Mag. Nat. Hist.* vi. 169; *Van Beneden, Camp.* 37. pl. 3. fig. 9 (opt.); *Johnst. Hist. Brit. Zooph.* ed. 2. p. 110. fig. 19. 472.
*a, b.* Presented by G. Johnston, M.D.

4. CAPSULARIA lacerata.

Campanularia lacerata, *Johnst. Hist. Brit. Zooph.* ed. 2. pl. 28. fig. 3. p. 111.
*a.* On Plumularia falcata. Berwick Bay. Presented by G. Johnston, M.D.

5. CAPSULARIA lævis.

Campanularia lævis, *Couch, Corn. Faun.* iii. 42.
Inhab. Polperro, *Couch.*

** CLYTIA.

6. CAPSULARIA verticillata,

Horse-tail Coralline with bell-shaped cups, *Ellis, Corall.* 23. no. 20. pl. 13. fig. *a*, A.
Sertularia verticillata, *Linn. Syst.* 1310; *Pall. Elench.* 115; *Ellis and Soland. Zooph.* 50; *Berk. Syn.* i. 218; *Hogg's Stock.* 34.
Clytia verticillata, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 202.
Halecium verticillata, *Oken, Lehrb. Nat.* 92.
Campanularia verticillata, *Lamk. Anim. s. Vert.* ii. 113, ed. 2. ii. 131; *Flem. Brit. Anim.* 550; *Templeton, Mag. Nat. Hist.* ix. 466; *Couch, Zooph. Cornw.* 23; *Corn. Faun.* iii. 42. pl. 11. fig. 4; *Hassall, Ann. & Mag. Nat. Hist.* vi. 169; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 112. t. 26. figs. 3, 4. 472; *Dalyell, Anim. Scotl.* i. 218. t. 42.
La Laomédée verticillée, *Blainv. Act.* 475. pl. 84. fig. 3.
*a.* Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.
*b.* In spirits. Presented by G. Johnston, M.D.

*** LAFEA, *Lamx.*

7. CAPSULARIA dumosa.

Corallina astaci corniculorum æmuli, *Petiv. Plant. Ital.* pl. 2. fig. 10.

Sertularia volubilis β, *Pall. Elench.* 123.

Sertularia dumosa, *Flem. Edinb. Phil. Journ.* ii. 83.

Tubularia tubifera, *Johnst. Edinb. Phil. Journ.* xiii. 222. pl. 3. figs. 2, 3.

Lafea cornuta, *Lamx.*; *Soland. Zooph.* 5. pl. 65. figs. 12, 14.

Campanularia dumosa, *Flem. Brit. Anim.* 548; *Johnst. Trans. Newc. Soc.* ii. 254. pl. 11. fig. 1; *Couch, Corn. Faun.* iii. 42; *Reid, Ann. & Mag. Nat. Hist.* xvi. 393; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 113. figs. 20–22. t. 27. figs. 2–5. 472; *Dalyell, Anim. Scotl.* i. 221. t. 46. f. 22, 23.

Cornularia dumosa, *Couch, Zooph. Cornw.* 39.

Cornularia rugosa, *Gray, Ann. Nat. Hist.* i. 238; not *Cavolini.*

Siphytus obconicus, *Rafinesq. Caratt.* (1810), 96. t. 20. fig. 8?

*a, b, c, d, e.* Berwick Bay. Presented by G. Johnston, M.D.

*f.* ————? Presented by G. Johnston, M.D.

*g.* On Flustra. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

*h.* On fragments of sea-weed. Presented by G. Johnston, M.D.

*i.* Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

3. CONCHELLA.

Campanularia, sp. *Couch, Corn. Faun.* 41, 1844; *Dalyell, Anim. Scotl.* 224.

1. CONCHELLA intertexta.

Campanularia intertexta, *Couch, Corn. Faun.* iii. 41. t. 11. fig. 3; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 109.

Sertularia Campanularia arcta, *Dalyell, Anim. Scotl.* 224. t. 42.

*a, b, c.* On Sertularia.. Zetland. Presented by G. Johnston, M.D.

*Doubtful Species.*

CYMODOCE, *Lamx.* 1816; *Blainv.* 1830.

1. CYMODOCE simplex.

Cymodoce simplex, *Lamx. Cor. Flex.* 216. pl. 7. fig. 2; *Blainv. Act.* 487. pl. 81. fig. 4; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 116.

Laomedea geniculata (injured), *Couch, Corn. Faun.* 43.

*a.* "English coast, from M. Lamouroux's collection." *Leach.*

2. CYMODOCE comata.

Cymodoce comata, *Lamx. Exp. Méth.* 15. pl. 67. figs. 12, 13; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 117.
Cymodocia comata, *Flem. Brit. Anim.* 551.
Inhab. "Devonshire, *W. E. Leach.*" *Lamouroux.*

? Order IV. HYDRINA.

Hydrina, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 120.

Fam. HYDRAIDÆ.

Genus Hydra, *Linn. Syst.* 1320; *Pall. Elench.* 25; *Ellis and Soland.* 8; *Lamk. Anim. s. Vert.* ii. 57; *Blainv. Act.* 494; *Flem. Brit. Anim.* 553.
Les Polypes à bras, *Cuv. Règ. Anim.* iii. 294.
Hydrina pars, *Ehrenb. Corall. des Roth. Meer.* 67.
Hydroidæ, *Johnst. Trans. Berw. Club.* p. 107.
Hydraidæ, *Gray, Syn. Brit. Mus.* 76; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 120; *Couch, Corn. Faun.* 136.
Polypes nues (P. nuda), *Blainv. Dict. Sci. Nat.* 1830.

1. HYDRA.

Hydra, *Linn.* &c.

1. HYDRA viridis.

Polypes verds, *Trembley, Mem.* 22. pl. 1. fig. 1, pl. 3. figs. 1–10.
Freshwater Polypus, *Trembley, Phil. Trans. abridg.* viii. 623; *Folkes, ibid.* 676. pl. 17, & pl. 18. figs. 1–3.
Hydra viridis, *Linn. Faun. Suec.* 367. no. 1283; *Linn. Syst.* 1320; *Müll. Verm.* 1, 11, 13; *Zool. Dan. Prod.* 230. no. 2783; *Encyclop. Méthod. Vers,* pl. 66. figs. 1–8; *Berk. Syn.* i. 221; *Ure's Ruthberg.* 232; *Turt. Gmel.* iv. 691; *Turt. Brit. Faun.* 218; *Lam. Anim. s. Vert.* ii. 60; *Stew. Elem.* ii. 452. pl. 12. figs. 4, 5; *Rees's Cyclop. Vermes,* pl. 5. fig. 1; *Blumenb. Man.* 275. pl. 1. fig. 10; *Bosc, Vers,* ii. 274; *Stark, Elem.* ii. 443; *Woodward, Mag. Nat. Hist.* iii. 349. fig. 89; *Roget, Bridgw. Treat.* i. 162. figs. 59, & 176–8. figs. 73–76; *Adams on the Microscope,* 399. pl. 21. fig. 5; *Carus, Comp. Anat.* t. 1. fig. 1; *Ehrenb. Corall. des Roth. Meer.* 67; *Landsborough, Scott. Christ. Herald, n. s.* i. 726.; *Thompson, Ann. & Mag. Nat. Hist.* vii. 481; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 121. fig. 28.
H. viridissima, *Pall. Elench.* 31.
Third sort of Polype, *Baker, Polyp.* 19 *c.* fig.
De Groene Polyp met veale armen, *Rosel, Hist. der Insect.* iii. t. 88, 89.

Le Polype vert, *Cuv. Règ. Anim.* iii. 295.
L'Hydre verte, *Blainv. Act.* 494. pl. 85. fig. 1.
Inhab.

2. HYDRA vulgaris.

Polypes de la seconde espèce, *Tremb. Mem.* pl. 1. figs. 2, 5; pl. 2. fig. 2; pl. 6. figs. 2, 8; pl. 8. figs. 1, 7; pl. 10. figs. 1–7; pl. 11, 12, 13. figs. omn. *partly copied in Adams's Micros.* 399. pl. 21. fig. 6; *Rosel, Hist. der Insect.* iii.; *Polyp.* t. 78–83; *Ehrenb. Corall. des Roth. Meer.* 68.
Hydra vulgaris, *Pall. Elench.* 30; *Ellis, Phil. Trans.* lvii. 430; *Ellis and Soland. Zooph.* 9; *Encyclop. Méthod. Vers*, pl. 67; *Rees's Cyclop. Vermes*, pl. 5. fig. 2; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 122. t. 29. fig. 2. 473.
H. grisea, *Linn. Syst.* 1320; *Müll. Verm.* 1. ii. 14; *Couch, Corn. Faun.* iii. 136; *Ure's Ruthberg.* 233; *Berk. Syn.* i. 222; *Blumenb. Man.* 295; *Lamk. Anim. s. Vert.* ii. 60; *Templeton, Mag. Nat. Hist.* ix. 418.
H. brunnea, *Templeton, loc. cit.* 417. fig. 56.
First sort of Polype, *Baker, Polyp.* 17 *c.* fig.
Polypes d'eau douce, *M. Edwards, Elem. de Zool.* 10. fig. 1.
Inhab.

3. HYDRA attenuata.

Hydra attenuata, *Rosel, Ins.* iii.; *Polyp.* t. 76, 77; *Pall. Elench.* 32; *Ehrenb. Corall. des Roth. Meer.* 68; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 123. t. 29. fig. 1.
H. pallens, *Turt. Gmel.* iv. 692; *Lamk. An. s. Vert.* ed. 2. ii. 71.
Inhab.

4. HYDRA Oligactis.

Polypes à long bras, *Tremb. Mem.* pl. 1. figs. 3, 4, 6; pl. 2. figs. 1, 3, 4; pl. 3. fig. 11; pl. 5. figs. 1–4; pl. 6. figs. 3–7, 9, 10; pl. 8. fig. 8, 11; pl. 9, *copied in Adams's Micros.* 399. pl. 21. fig. 7, 8, pl. 23. A. B, pl. 24. A. B. fig. omnes; *Rosel, Hist. der Insect. Polyp.* iii. pl. 84, 87; *Cuv. Règ. Anim.* iii. 295.
Long-armed Freshwater Polype, *Ellis, Corall.* xvi. pl. 28. fig. C. (the tentacula shortened).
Second sort of Polype, *Baker, Polyp.* 18 *c.* fig.
Hydra Oligactis, *Pall. Elench.* 29; *Ehrenb. Corall. des Roth. Meer.* 68; *Johnst. Hist. B. Z.* ed. 2. p. 124. fig. 27. p. 120.
H. fusca, *Linn. Syst.* 1320; *Encyclop. Méthod. Vers*, pl. 69. figs. 1–9; *Rees's Cyclop. Vermes*, pl. 5. fig. 3; *Ellis & Soland. Zooph.* 9; *Blumenb. Man.* 275; *Lam. Anim. s. Vert.* ii. 60.
Hydra verrucosa, *Templeton, Mag. Nat. Hist.* ix. 418. fig. 57; *Allman, Ann. Nat. Hist.* xiii. 328.
Inhab.

## Class V. POLYZOA.

Polyzoa, *J. V. Thompson, Zool. Research. Mem.* v. 92; *J. E. Gray, Syn. Brit. Mus.* 133; *Johnst. Hist. Brit. Zooph.* ed 2. p. 253.
Bryozoa, *Ehrenberg, Corall. des Roth. Meer.* 153; *Jones, Anim. Kingd.* 107, 117; *Owen, Lect.* 93, 101.
Molluscan Zoophytes s. Zoophyta Ascidioida, *Johnst. Mag. Zool. & Bot.* i. 448; *Couch, Corn. Faun.* iii. 84.
Les Bryozoarides, *Audouin and Milne Edwards, Lam. Anim. s. Vert.* ed. 2. ii. 104.
Ciliobrachiata, *Farre, Phil. Trans.* 1837.
Polypes tuniciens, *M. Edwards, Mem.* 16.
Polypiaria pars, *Blainv. Dict. Sci. Nat.* 1830, lx. 364.

### Order I. CARNOSA.

Polyzoa carnosa, *J. E. Gray, Syn. Brit. Mus.* 135 (1842).

#### Fam. 1. ALCYONIDIADÆ.

Alcyoniadæ, *Johnst. Trans. Berw. Nat.. Club.* i. 108 (1836).
Alcyonidulæ, *Johnst. Hist. Brit. Zooph.* 300.
Halcyonellea, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 358.
Alcyonidiadæ, *Gray, Syn. Brit. Mus.* 1842, 135.

##### 1. ALCYONIDIUM.

Alcyonidium, *Lamx. Gen. Thalas.* 71, 1813; *Exp. Méth.* 71, 1821; *Gray, Brit. Pl.* i. 353; *Johnst. Hist. Brit. Zooph.* ed. 1. 300, ed. 2. 350; *Couch, Corn. Faun.* iii. 132.
Alcyonium, *Flem. Brit. An.* 1828, 517; *Blainv.* 1830 (not *Lamx.*).
Alcyonium, sp. *Pallas*; *Ellis.*
Halodactylus, *Farre, Phil. Trans.* 1837; *Van Beneden.*
Fucus, sp. *Ray.*
Ulva, sp. *Hudson.*
Egg of a naked Gasteropodous Mollusca, *D'Orb. Mém. Mus.* vi. 181.
Epipetrum, *Oken, Lehrb. Nat.* 80, 1815.

1. ALCYONIDIUM gelatinosum.

Fucus spongiosus nodosus, *Ger. Herb. Emac.* 1570. no. 10. fig.; *Raii Syn.* i. 49. no. 42.
Alcyonium, seu Fucus nodosus et spongiosus, *Ellis, Corall.* 87. no. 5. pl. 32. fig. *d*, D.

Alcyonium ramosum molle, multis polypis obsessum, *Bast. Opusc. Subs.* i. 40. t. 1. fig. 5. A, B.

Alcyonium gelatinosum, *Pall. Elench.* 353; *Linn. Syst.* 1295; *Oliv. Zool. Adriat.* 240; *Esper, Pflanz.* t. 18. A. figs. 1, 2; *Müll. Zool. Dan. Prod.* 255; *Zool. Dan.* iv. 30. t. 147; *Ellis and Soland. Zooph.* 176; *Jameson, Wern. Mem.* i. 563; *Stew. Elem.* ii. 432; *Flem. Brit. Anim.* 517; *Lamx. Cor. Flex.* 350; *Blainv. Dict. Sc. Nat.* lx. 488; *Act.* 525. pl. 92. fig. 1.

Ulva diaphana, *Eng. Bot.* pl. 263; *With. Bot. Arrang.* iv. 121; *Hull. Brit. Fl.* ii. 312; *Lam. and Decand. Flor. Franç.* ii. 6.

Epipetrum gelatinosum, *Oken, Lehrb. Nat.* 80, 1815.

Alcyonidium diaphanum, *Lamx. Gen. Thalas.* 71. t. 7. fig. 4; *Expos. Méth.* 71; *Gray, Brit. Pl.* i. 353; *Hook. Fl. Scot.* ii. 75; *Loud. Encyclop. Pl.* 928. no. 15045; *Couch, Corn. Faun.* iii. 133.

Al. flavescens, *Loud. Encyclop. Pl.* 928. no. 15046.

Halodactylus diaphanus, *Farre, Phil. Trans.* 1837, 405. pl. 25, 26; *Van Beneden, Recherch.* 60. pl. 8. fig. 12.

Alcyonidium gelatinosum, *Johnst. Brit. Zooph.* 300. pl. 41. figs. 1–3; *Couch, Corn. Faun.* 132; *W. Thompson, Ann. Nat. Hist.* v. 253; *Hassall, Ann. & Mag. Nat. Hist.* vii. 370; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 358. t. 68. figs. 1–3.

*a.* In spirits. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.

*b, c.* In spirits. W. E. Leach, M.D.

2. ALCYONIDIUM hirsutum.

Alcyonium gelatinosum, *Fabr. Faun. Grœnl.* 447; *Esper, Pflanz. Alcyon.* t. 18. fig. 1.

A. hirsutum, *Flem. Brit. Anim.* 517; *Johnston, Zool. Journ.* iv. 418, & *Trans. Newc. Soc.* ii. 251. pl. 9. fig. 1; *Blainv. Dict. Sci. Nat.* lx. 488.

Alcyonidium hirsutum, *Johnst. Brit. Zooph.* 303. pl. 42. figs. 1, 2; *Hassall, Ann. & Mag. Nat. Hist.* vii. 370. pl. 10. figs. 3, 4; *Couch, Corn. Faun.* iii. 133; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 361. t. 69. figs. 1, 2.

Halodactylus hirsutus, *Van Bened. Recherch.* 61. pl. 8. figs. 3–8.

*a.* Dry, on paper. Berwick Bay. Presented by G. Johnston, M.D.

3. ALCYONIDIUM parasiticum.

Alcyonium parasiticum, *Flem. Brit. Anim.* 518; *Blainv. Dict. Sci. Nat.* lx. 488.

Alcyonidium parasiticum, *Johnst. Brit. Zooph.* 304. pl. 41. figs. 4, 5; *Couch, Corn. Faun.* iii. 134; *Hassall, Ann. & Mag. Nat. Hist.* vii. 370; *Reid, Ann. & Mag. Nat. Hist.* xvi. 393; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 362. t. 68. figs. 4, 5.

Halodactylus parasiticus, *Van Beneden, Recherch.* 62. pl. 8. figs. 9–12.

*a.* Dry, on *Plumularia foliata.* Frith of Forth. Presented by G. Johnston, M.D.

*b.* On *Thoa halecina.* Presented by G. Johnston, M.D.

### 2. Pulmonellum.

Pulmonellum, *Blainv. Dict. Sci. Nat.* lx. (1830), 489.

Alcyonium, sp. *Ellis, Cor.* 82; *Pallas, Zooph.* 356; *Oken, Lehrb. Nat.* 82, 1815.

Mazina, sp. *Oken, Lehrb. Nat.* (1815), 84.

1. Pulmonellum Ficus.

Alcyonium pulmonis instar lobatum, *Ellis, Corall.* 82. t. 17. B.

Alcyonium Ficus, *Pallas, Zooph.* 356; not *Esper.*

Pulmonellum Ficus, *Blainv. Dict. Sci. Nat.* lx. (1830); *Man. Act.* 526. t. 92. f. 3, cop. *Ellis.*

Mazina pulmoniforme, *Oken, Lehrb. Nat.* 84.

Inhab. Kent, *Ellis.*

### 3. Cycloum.

Cycloum, *Hassall, Ann. & Mag. Nat. Hist.* vii. 433; *Johnst. Brit. Zooph.* ed. 2. 364, 1847.

1. Cycloum papillosum.

Cycloum papillosum, *Hassall, Ann. & Mag. Nat. Hist.* vii. 483; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 364. t. 70.

*a, b, c, d.* Dry, on *Fucus serratus.* Presented by G. Johnston, M.D.

### 4. Sarcochitum.

Sarcochitum, *Hassall, Ann. & Mag. Nat. Hist.* vii. 434; *Johnst. Hist. Brit. Zooph.* ed. 2. 466, 1847.

1. Sarcochitum polyoum.

Sarcochitum polyoum, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 366. t. 71; *Hassall, Ann. & Mag. Nat. Hist.* vii. 434.

*a, b.* Dry, on *Fucus serratus.* Presented by G. Johnston, M.D.

## Fam. 2. Pedicellinidæ.

Polypiaria pedicellinea, *P. Gervais, Ann. des Sci. Nat.* vii. (1837), 80.

Pedicellinæ, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 381.

### 1. Pedicellina.

Pedicellina, *Sars, Besk.* 4, 1835; *Van Beneden, Nouv. Mém. Acad. Brux.* xix. 47. t. 12.
Cardua, *Hassall, MSS.*
Crinomorpha, *Van Beneden, MSS.* 1837.
Lusia, *Milne Edwards in Lamk. Hist. Anim. s. Vert.* ed. 2. ii. 72, 1836.
Hydra, sp. *Bosc.*
Hydra β, *Flem. Brit. Anim.* 1828.

1. Pedicellina echinata.

Fleshy Polypes of a red colour and a particular kind, *Ellis, Corall.* pl. 38. fig. 5. E, F.
Hydra coronata, *Flem. Brit. Anim.* 554; *Lister, Phil. Trans.* 1834, p. 385. pl. 12. fig. 6; *Sharpey, Cyclop. Anat. & Phys.* i. p. 610. fig. 293.
Pedicellina echinata, *Sars, Besk.* 5. pl. 1. fig. 1; *Hassall, Ann. & Mag. Nat. Hist.* vii. 365; *W. Thompson, ibid.* xiii. 440; *Ann. Nat. Hist.* xv. 312. pl. 20. fig. 5; *J. Reid, ibid.* xvi. 390; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 382. t. 70. fig. 5; *Van Beneden, Nouv. Mém. Acad. Brux.* xix. 47. t. 1, 2.
? Hydra lutea, *Bosc, H. N. Vers,* ii. 236. t. 22. fig. 2; *Lamk. Hist.* ed. 2. ii. 60.
Lusia, *M. Edwards in Lamk. Hist.* ed. 2. ii. 72.
*a, b.* In spirits. Presented by G. Johnston, M.D.
*c.* In spirits with *Eucratea chelata.* Presented by G. Johnston, M.D.

Note.—"*Forbesia, H. D. S. Goodsir, Ann. & Mag. Nat. Hist.* xv. 380. t. 20. fig. 4, is the skin of a worm."—*Dr. Melville.*

## Order II. CORNEA.

Polyzoa cornea, *J. E. Gray, Syn. Brit. Mus.* 135.

### Fam. 1. Vesiculariadæ.

Vesiculariadæ, *Gray, Syn. Brit. Mus.* 1842, 135.
Vesicularina, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 367.

### 1. Amathia.

Amathia, *Lamx. Bull. Soc. Philom.* iii. 184, 1812 (Sert. lendigera).
Serialaria, *Lamk.* 1812 (no char.), 1816; *Blainv.* 1830, 1834.
Sertularia, sp. *Pallas.*
Pennaria (type), *Oken, Lehrb. Nat.* 93, 1815.

1. AMATHIA lendigera.

Fucoides lendigerum capillamentis Cuscutæ instar implexis, *Raii Syn.* 38. no. 3.

Nit Coralline, *Ellis, Corall.* 27. no. 24. pl. 15. fig. *b*, B.

Sertularia lendigera, *Linn. Syst.* 1311; *Pall. Elench.* 124; *Ellis and Soland. Zooph.* 52; *Oliv. Zool. Adriat.* 289; *Esper, Pflanz. Sert.* t. 9. figs. 1, 2; *Turt. Gmel.* iv. 682; *Berk. Syn.* i. 218; *Stew. Elem.* ii. 445; *Wern. Mem.* i. 564; *Turt. Brit. Faun.* 215; *Bosc, Vers,* iii. 117; *Hogg's Stock.* 33; *Lister, Phil. Trans.* 1834, 384.

La Sertolara lendinosa, *Cavol. Polip. Mar.* 229. t. 9. figs. 1, 2; *D. Chiaje, Anim. s. Vert. Nap.* iv. 146.

Serialaria lendigera, *Lamk. Anim. s. Vert.* ii. 130, ed. 2. ii. 169; *Risso, l'Europ. Mérid.* v. 315; *Flem. Brit. Anim.* 547; *Stark. Elem.* ii. 439; *Templeton, Mag. Nat. Hist.* ix. 467; *Couch, Zooph. Cornw.* 37; *Corn. Faun.* iii. 94. pl. 16. fig. 4; *Blainv. Act.* 476. pl. 38. fig. 2; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 369.

Amathia lendigera, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 159; *Expos. Méthod.* p. 10; *Corall.* 68.

Pennaria lendigera, *Oken, Lehrb. Nat.* 93.

*a.* Dry, on paper. Presented by G. Johnston, M.D.

*b.* Dry, on paper. Coast of Northumberland. Presented by G. Johnston, M.D.

*c.* Dry. Cornwall. Presented by G. Johnston, M.D.

*d.* Belfast Bay, W. Thompson, Esq. Presented by G. Johnston, M.D.

2. VESICULARIA.

Vesicularia, *Johnst. Brit. Zooph.* ed. 2. 370.

Vesicularia, sp. *J. V. Thompson.*

Valkeria β, *Flem. Brit. Anim.* 551, 1828.

Laomedea, sp. *Lamx.* 1812; *Blainv.* 1834.

Halecium *a*, sp. *Oken, Lehrb. Nat.* 92, 1815.

1. VESICULARIA spinosa.

Conferva marina cancellata, *Raii Syn.* i. 59. no. 11; *Dill. Hist. Musc.* 24. no. 22. pl. 4. fig. 22, fide *D. Turner, Linn. Trans.* vii. 106.

Conferva cancellata, *Linn. Syst.* ii. 720; *With. Bot. Arrang.* iv. 131.

Silk Coralline, *Ellis, Corall.* 20. no. 17. pl. 11. figs. *b*, B, *c*, D.

Sertularia spinosa, *Linn. Syst.* 1312; *Ellis and Soland. Zooph.* 48; *Turt. Gmel.* iv. 682; *Esper, Pflanz. Sert.* t. 28. figs. 1, 2, 3; *Jameson, Wern. Mem.* i. 564; *Bosc, Vers,* iii. 118; *Berk. Syn.* i. 219; *Stew. Elem.* ii. 446; *Turt. Brit. Faun.* 215; *Lamk. Anim. s. Vert.* ii. 120, ed. 2. ii. 148; *Hogg's Stock.* 33.

Sertularia sericea, *Pall. Elench.* 114.

Laomedea spinosa, *Lamx. Bull. Soc. Philom.* 1812, iii. 184; *Corall.* 91; *Blainv. Actinol.* 474; *Templeton, Mag. Nat. Hist.* ix. 466.

Valkeria spinosa, *Flem. Brit. Anim.* 551; *Couch, Zooph. Cornw.* 38.

Vesicularia spinosa, *J. V. Thompson, Zool. Illust.* 98. pl. 3. figs. 1–8; *Farre, Phil. Trans.* 1837, 401. pl. 22; *Johnst. Brit. Zooph.* 250. pl. 29. figs. 1–4; *Hassall, Ann. & Mag. Nat. Hist.* vi. 170; *Van Beneden, Les Bryozoaires*, 30. pl. 4. fig. *c*; *Couch, Corn. Faun.* iii. 94. pl. 17. fig. 1; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 370. t. 72. figs. 1–4.

*a*, *b*. Dry, on paper. Cork, J. V. Thompson, Esq. Presented by G. Johnston, M.D.

*c*. Dry, on paper. Belfast Bay, W. Thompson, Esq. Presented by G. Johnston, M.D.

*d*. Dry, on paper. Presented by G. Johnston, M.D.

*e*. ——? Presented by G. Johnston, M.D.

### 3. Beania.

Beania, *Johnst. Brit. Zooph.* ed. 2. p. 371.

1. Beania mirabilis.

Beania mirabilis, *Johnst. Ann. Nat. Hist.* v. 272; *Hist. Brit. Zooph.* ed. 2. p. 372. f. 69, 70.

*a*. On a *Pecten maximus* "with *Lepralia annulata, L. immersa, Tubipora hispida*, and *T. orbiculus*." Presented by G. Johnston, M.D.

*b*. On Anomia. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

### 4. Valkeria.

Valkeria, *Johnst. Brit. Zooph.* 1847, ed. 2. p. 373.
Valkeria *a*, *Flem. Brit. Anim.* 550, 1828.
Vesicularia, sp. *J. V. Thompson.*
Cuscutaria, *Blainv. Dict. S. N.* lx. 461, 1830; *Act.* 497, 1834.
Campanularia, sp. *Blainv. Man. Act.*
Clytia, sp. *Lamx.* 1816.
Sertularia, sp. *Lamx.* 1812.
Peripyxis, *Ehrenb. Cor. Roth. Meer.* 1834.

### * Cuscutaria.

1. Valkeria Cuscuta.

Climbing Dodder-like Coralline, *Ellis, Corall.* 28. no. 26. pl. 14. fig. *c*, C.

Sertularia Cuscuta, *Linn. Syst.* 1311; *Pall. Elench.* 125; *Ellis and Soland. Zooph.* 53; *Berk. Syn.* i. 218; *Müll. Zool. Dan.* iii. 62. t. 117. figs. 1–3; *Turt. Gmel.* iv. 680; *Turt. Brit. Faun.* 214; *Wern. Mem.* i. 564; *Bosc, Vers,* iii. 113; *Stew. Elem.* ii. 444; *Fleming, Wern. Mem.* iv. 485. pl. 15. fig. 1; *Lamx. Bull. Soc. Phil.* 1812, iii. 184.

Valkeria Cuscuta, *Flem. Brit. Anim.* 550; *Farre, Phil. Trans.* 1837, 402. pl. 23; *Hassall, Ann. & Mag. Nat. Hist.* vii. 286; *Van Beneden, Les Bryozoaires,* 27. pl. 4. fig. B; *Couch, Corn. Faun.* iii. 96. pl. 17. fig. 3; *Johnst. Hist. B. Z.* ed. 2. p. 374.

Vesicularia Cuscuta, *Thomp. Zool. Illust.* 97. pl. 2. figs. 1–4.

Cuscutaria Cuscuta, *Blainv. Dict. Sci. Nat.* lx. 461; *Actinol.* 497. pl. 82. fig. 2.

Peripyxis Cuscuta, *Ehrenb. Corall. Roth. Meer.* 74.

*a.* Dry, on paper. Cork harbour, J. V. Thompson, Esq. Presented by G. Johnston, M.D.

*b.* Dry, on paper, with Sertularia polyzonias and Cellularia reptans. Ayrshire. Presented by G. Johnston, M.D.

*c.* Dry, on paper. Bootle, Cheshire. Presented by G. Johnston, M.D.

*d.* Ayrshire. P. W. Martin, Esq. Presented by G. Johnston, M.D.

*e.* Devonshire, Mrs. E. Griffith. Presented by G. Johnston, M.D.

*f.* Dry. Presented by G. Johnston, M.D.

*g.* Dry. Presented by G. Johnston, M.D.

*h.* Belfast Bay, W. Thompson, Esq. Presented by G. Johnston, M.D.

*i.* Ayrshire, P. W. Maclagan, Esq. Presented by G. Johnston, M.D.

*j.* In spirits. Presented by G. Johnston, M.D.

** VALKERIA.

2. VALKERIA Uva.

Grape Coralline, *Ellis, Corall.* 27. no. 25. pl. 15. figs. *c*, C, D.

Sertularia Uva, *Linn. Syst.* 1311; *Ellis and Soland. Zooph.* 53; *Berk. Syn.* i. 218; *Turt. Gmel.* iv. 682; *Turt. Brit. Faun.* 215; *Stew. Elem.* ii. 445; *Jameson, Wern. Mem.* i. 564; *Bosc, Vers,* iii. 117; *Hogg's Stock.* 34.

Clytia Uva, *Lamour. Corall.* 89; *Templeton, Mag. Nat. Hist.* ix. 466.

Valkeria Uva, *Flem. Brit. Anim.* 551; *Hassall, Ann. & Mag. Nat. Hist.* vi. 170; *Couch, Zooph. Cornw.* 38; *Couch, Corn. Faun.* iii. 95. pl. 16. fig. 5; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 375.

Campanularia ovifera, *Blainv. D. S. N.* lx. 438; *Man. Act.* 473. Inhab.

*** VESICULARELLA.

3. VALKERIA pustulosa.

Vulkaria pustulosa, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 376.
Dichotomous tubular Coralline, *Ellis, Corall.* 54. pl. 27. fig. *b*, B.
Sertularia pustulosa, *Ellis and Soland. Zooph.* 54; *Turt. Gmel.* iv. 680; *Bosc, Vers,* iii. 113; *Stew. Elem.* ii. 444; *Turt. Brit. Faun.* 214; *Flem. Brit. Anim.* 551.
Vesicularia pustulosa, *Thomp. Zool. Illust.* 99. pl. 1. figs. 5–11.
*a.* Dry, on paper. Cork harbour, J. V. Thompson, Esq. Presented by G. Johnston, M.D.
*b, c.* Dry, on paper. Presented by G. Johnston, M.D.

5. BOWERBANKIA.

Bowerbankia, *Farre, Phil. Trans.* 1837; *Johnst. Brit. Zooph.* ed. 1. 255, ed. 2. 377.
Valkeria, sp. *Coldstream*; *Johnst. Brit. Zooph.* ed. 1. 254, 1838.
Serialaria, *Templeton.*

1. BOWERBANKIA imbricata.

Bowerbankia imbricata, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 377. fig. 71. t. 72. figs. 5, 6.

*Primary state.* Bowerbankia densa, *Farre, Phil. Trans.* 1837, p. 391. pl. 20, 21; *Johnst. Brit. Zooph.* 255; *W. Thompson, Ann. Nat. Hist.* v. 252; *Van Beneden, Les Bryozoaires,* 29. pl. 4. fig. A.

*Adult state.* Sertularia imbricata, *Adams, Linn. Trans.* v. 11. pl. 2. figs. 5–11; *Turt. Gmel.* iv. 683; *Turt. Brit. Faun.* 216; *Stew. Elem.* ii. 450; *Thomp. Zool. Illust.* 94. pl. 1. figs. 1–4.
Valkeria glomerata, *Coldstream, Edinb. New Phil. Journ.* ix. 235. pl. 2. figs. 1, 2; *Edinb. Journ. Nat. & Geog. Sc.* iii. 53.
Serialaria imbricata et S. verticillata, *Templeton, Mag. Nat. Hist.* ix. 467. fig. 66.
Valkeria imbricata, *Johnst. Brit. Zooph.* 254; *Hassall, Ann. & Mag. Nat. Hist.* vii. 363. pl. 8. fig. 2; *Couch, Corn. Faun.* iii. 95. pl. 17. fig. 2.
*a.* Dry, on paper. Cork harbour, J. V. Thompson, Esq. Presented by G. Johnston, M.D.
*b.* Dry, on paper. Youghal, Miss Ball. Presented by G. Johnston, M.D.
*c, d, e.* In spirits. Presented by G. Johnston, M.D.
*f.* In spirits (primary state). Presented by G. Johnston, M.D.
*g.* In spirits (secondary state). Southampton. Presented by G. Johnston, M.D.

BOSTON SOCIETY

6. FARRELLA.

Lagenella, *Farre, Phil. Trans.* 1837; not *Ehrenb.* 1832.
Farrella, *Ehrenberg, Ann. & Mag. Nat. Hist.* vii. p. 303; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 380.
Laguncula, *Van Beneden, Mem.* 5, 1845.
Bowerbankia, sp. *Johnst. Brit. Zooph.* ed. 1. 256, 1838.

1. FARRELLA repens.

Farrella repens, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 380.
Lagenella repens, *Farre, Phil. Trans.* 1837, p. 403. pl. 24; *W. Thompson, Ann. Nat. Hist.* v. 252; *Hassall, Ann. & Mag. Nat. Hist.* vii. 364.
Bowerbankia repens, *Johnst. Brit. Zooph.* 256.
Laguncula repens, *Van Beneden, Recherch.* 25. pl. 1 & pl. 2 A.
*a.* Dry, on paper, with Cellularia scuposa and C. ciliata. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.

Fam. 2. CRISTATELLIDÆ.

Polypes douteux (*P. dubia*), *Blainv. Dict. Sci. Nat.* 1830, lx. 455.
Polypiaria hippocrepia, *P. Gervais, Ann. des Sc. Nat.* vii. (1837), p. 77 (from *Blainv.*).
Limniades, *Johnst. Brit. Zooph.* ed. 1. 248, 1838; *Allman, Ann. & Mag. Nat. Hist.* xiii.
Polyzoa hippocrepia, *J. E. Gray, Syn. Brit. Mus.* (1842), p. 135; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 386, 1847.
Cristatellidæ, *Gray, Syn. Brit. Mus.* 1842, 135.
Cristatellidæ & Plumatellidæ, *Johnst. Brit. Zooph.* ed. 2. 387–391, 1847.

1. CRISTATELLA.

Cristatella, *Cuvier, Tab. Elem.* 656, 1797; *R. A.* 1817; *Oken, Lehrb. Nat.* 54.
Cristatella, *Lamk.* 1801, animal only, *Lamk.* 1818.

1. CRISTATELLA Mucedo.

De kleine Vederbos-poly, met. het. balvormig lyf, *Rosel, Hist. der Insect.* iii.; *Polyp.* 517. pl. 91.
Cristatella Mucedo, *Cuv. Tab. Elem.* 656 (1797); *Règ. Anim.* iii. 296; *Gervais, Ann. des Sc. Nat. Part. Zool.* vii. 77, *n. s.*; *Turpin, ibid.* vii. 65. pl. 2, 3. figs. 1–7; *Allman, Athenæum, Sept.* 1846, p. 1005; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 387. fig. 72.
C. stagnorum, *Lamk. Syn.* 385 (animal, not sponge).
Cristatella Centrifuga, *Oken, Lehrb. Nat.* 54.

C. vagans, *Lamk. Anim. s. Vert.* ii. 97, ed. 2. ii. 110; *Blainv. Actinol.* 489, 678. pl. 85. fig. 7; *Bosc, Vers,* iii. 180. pl. 30. fig. 9; *Stark. Elem.* ii. 442.
C. mirabilis, *Dalyell, Edinb. New Phil. Journ.* xvii. 414; *Rep. Brit. Assoc.* 1834, 604.
Inhab. Fresh water, Scotland, *Dalyell.* Ireland, *Allman.*

### 2. Alcyonella.

Pharetria, *Oken, Lehrb. Nat.* 53, 1815.
Alcyonella, *Lamk. Hist. Anim. s. Vert.* ii. 100, 1816; *Expos. Méth.* 71, 1821; *Blainv. Dict. Sci. Nat.* lx. 456, 1830.
Plumatella, sp. *Bosc, Hist. Vers,* iii. 80?, 1822; *Lamk. Hist. Anim. s. Vert.* ii. 107 (not *Syst.* 1801).
Naïsa (sp.?), *Lamx. Pol. Flex.* 223, 1816.
Tubularia *a*, *Cuvier, Tab. Elem.* 664 (1798).
Tubularia, *Vaucher, Bull. Soc. Phil.* iii. 158 (1812).
Tubularia, sp. *Linn.*; *Pallas.*
Cristatella, *Flem. Brit. Anim.* 518 (1828).
Fedel and Roëhrel, *Oken, Lehrb. Nat.* 53, 1815.

1. Alcyonella campanulata.

Variation *a*, *sponge-like, massive.*
Alcyonium fluviatile, *Brug. Ency. Méth.* 24. 410; *Bosc, Vers,* iii. 159; *Lamx. Cor. Flex.* 354; *Corall.* 250.
Ephydatia Gibbsii, *Gray, Brit. Pl.* i. 353.
Alcyonella stagnorum, *Lamk. Anim. s. Vert.* ii. 102, ed. 2. ii. 442; *Lamx. Soland.* t. 76. figs. 5–8 (bad); *Teale, Trans. Leeds Phil. & Lit. Soc.* i. 116. pl. 12; *Mag. Zool. & Bot.* i. 293; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 391. figs. 73, 74, 75. t. 74. 478; *Blainv. Dict. Sci. Nat.* lx. 456; *Actinol.* 491. pl. 85. fig. 8.
A. fluviatilis, *Raspail, Mém. de la Soc. d'Hist. Nat. de Paris,* iv. 130. pl. 12–16.
Variation β, see *Lamx. Pol. Flex.* 223, 354; *Johnst. Brit. Zooph.* ed. 2. p. 390.
Polypes à Panache, *Tremb. Mém.* 210. pl. 10. figs. 8, 9; *Reaum. Mém. des Insect.* vi. pref. lxxvi.
The Bell-flower Animal or Plumed Polype, *Baker, Employ. Micros.* 306. pl. 12. figs. 15–22.
Hydra campanulata, *Linn. Syst.* ed. 10. 817.
Tubularia crystallina, *Pall. Elench.* 85.
T. campanulata, *Linn. Syst.* 1303; *Berk. Syn.* i. 215; *Shaw, Nat. Misc.* x. pl. 354; *Turt. Gmel.* iv. 668; *Turt. Brit. Faun.* 211; *Adams on the Microscope,* 449. pl. 22. fig. 32; *Bosc, Vers,* iii. 92; *Blumenb. Man.* 272; *Cuv. Tab. Elem.* 665.

Leucophra heteroclita, *Müll. Infus.* 158. pl. 32. figs. 27–34, *copied in Encyclop. Méthod. Vers*, pl. 11. figs. 40–46 (in its fœtal condition).
T. reptans, *Bosc, Vers*, iii. 93; *Blumenb. Naturg.* 440.
Plumatella cristata, *Lamk. Anim. s. Vert.* ii. 107, ed. 2. ii. 122; *Stark. Elem.* ii. 441; *Blainv. Actinol.* 490.
Pl. campanulata, *Risso, L'Europ. Mérid.* v. 308.
Naïsa reptans, *Lamx. Corall. Flex.* 99. pl. 6. fig. 4, *from Trembley.*
Cristatella campanulata, *Flem. Brit. Anim.* 518.
C. paludosa, *Dalyell, Rep. Brit. Assoc.* 1834, 606.
Fedel, or Tub. crystallina s. reptans, *Oken, Lehrb. Nat.* 53.
Roëhrel, or Tub. gelatinosa s. campanulata, *Oken, Lehrb. Nat.* 53.
*a.* A rounded mass. Presented by G. Johnston, M.D.
*b.* In Sticks, Serpentine River, Hyde Park, Middlesex.
*c.* In an expanded mass. Presented by G. Johnston, M.D.

### 3. Plumatella.

Plumatella, *Bosc, Hist. Vers*, iii. 80 (1802); *Lamk. Hist. Anim. s. Vert.* ii. 108 (1816); *Johnst. Brit. Zooph.* ed. 2. 402 (1847).
Naïsa, *Lamx. Pol. Flex.* 222 (1816).
Tubipora, sp. *Linn.*
Tubularia, sp. *Müller*; *Cuvier, Tab. Elem.* 665; *Vaucher, Bull. Soc. Philom.* iii. 158.

#### 1. Plumatella repens.

Tubipora repens, *Linn. Syst.* ed. 10. 790.
Tubularia repens, *Müll. Verm.* ii. 16; *Zool. Dan. Prod.* 254; *Bosc, Vers*, iii. 93.
Roëhrel, or T. repens, *Oken, Lehrb. Nat.* 54.
Tubul. reptans, *Turt. Gmel.* iv. 669; *Cuvier, Tab. Elem.* 665; *Vaucher, Bull. Soc. Phil.* iii. t. 19. figs. 1–5; *Schœffer, Armpol.* 1754, t. 1. figs. 1, 2.
Plumatella repens, *Lamk. Anim. s. Vert.* ii. 108, ed. 2. ii. 123; *Flem. Brit. Anim.* 522; *Stark. Elem.* ii. 441; *Landsborough, Scot. Christ. Herald, n. s.* 1. 727; *Hassall, Ann. & Mag. Nat. Hist.* x. 153; *G. J. Allman, Proc. R. Irish Acad.* 1843; *W. Thompson, Ann. Nat. Hist.* v. 254; *Allman, Ann. & Mag. Nat. Hist.* xiii. 330; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 403.
Naïsa repens, *Lamx. Cor. Flex.* 98.
*a.* Dry, on a submerged leaf of Plantago major, in a pond at Lismoyne near Belfast, W. Thompson, Esq. Presented by G. Johnston, M.D.

#### 2. Plumatella emarginata.

Plumatella emarginata, *Allman, Ann. & Mag. Nat. Hist.* xiii. 331; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 404.
Inhab. Fresh water. Dublin, Bandon, *Allman.*

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3. PLUMATELLA fruticosa.

Plumatella fruticosa, *Allman, Ann. & Mag. Nat. Hist.* xiii. 331; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 404.
Inhab. Fresh water. Dublin, Bandon, Glandore, *Allman.*

4. NAÏSA.

Naïsa, sp. *Lamx. Pol. Flex.* 224.
Fredericella, *P. Gervais, Ann. Sci. Nat.*
Plumatella, sp. *Bosc, Hist. Vers,* iii. 80; *Flem. Brit. Anim.* 553.
Tubularia, sp. *Blumenb.*; *Cuv. Tab. Elem.* 665.

1. NAÏSA sultana.

Tubularia sultana, *Blumenb. Man.* 272. pl. 1. fig. 9; *Cuv. Tab. Elem.* 665; *Bosc. Vers,* iii. 93.
Plumatella gelatinosa, *Flem. Brit. Anim.* 553.
Fredericella sultana, *Allman, Ann. & Mag. Nat. Hist.* xiii. 331; *W. Thompson, Rep. Brit. Assoc.* 1843, p. 285; *Couch, Corn. Faun.* iii. 135; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 405.
Naïsa sultana, *Lamx. Pol. Flex.* 224.
Inhab. Fife, Lochmill-loch, *Fleming.* Penzance, *Couch.* Dublin, Bandon, *Allman.*

2. NAÏSA dilatata.

Fredericella dilatata, *Allman, Ann. & Mag. Nat. Hist.* xiii. 331; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 405.
Inhab. Fresh water. Dublin, *Allman.*

Fam. 3. PALUDICELLAIDÆ.

Paludicellaidæ, *Johnst. Brit. Zooph.* ed. 2. p. 405.

1. PALUDICELLA.

Paludicella, *P. Gervais*; *Allman, Proc. R. Irish Acad.* 1843; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 405.

1. PALUDICELLA articulata.

Paludicella articulata, *G. J. Allman, Proc. Roy. Irish Acad.* 1843, t. 1; *Ann. & Mag. Nat. Hist.* xiii. 331; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 405. fig. 77.
*a.* Dry, on paper. Lough Earn, W. Thompson, Esq. Presented by G. Johnston, M.D.

## Fam. 4. Flustradæ.

Flustra, *Linn.*; *Johnst. Brit. Zooph.* ed. 2. p. 342.
Flustradæ, *Gray, Appendix, and Proc. Zool. Soc.* 1848.
Escharidæ part., *Johnst. Brit. Zooph.* ed. 1. 248, ed. 2. 263; *Gray, Syn. Brit. Mus.* 1842, 135.

### 1. Flustra.

Flustra, sp. *Linn.*
Flustra, *Lamk. Syst.* 1801; *Gray, Appendix.*

1. Flustra foliacea.

Fucus marinus scruposus albidus telam sericeam texturâ suâ æmulans, *Morris, Hist. Plant.* iii. 646. t. 8. fig. 16 (bona).
Fucus telam lineam sericeamve texturâ suâ æmulans, *Raii Syn.* 42. no. 9; *Jussieu, Mém. Acad. Roy. des Sc.* 1742, 298. pl. 10. fig. 3.
Broad-leaved Hornwrack, *Ellis, Corall.* 70. no. 2. pl. 29. fig. *a*, A, B, *b*.
Curious Sea-weed, *Hooke, Microg.* 140. pl. 9. fig. 2, pl. 14. fig. 1.
Eschara foliacea, *Linn. Syst.* ed. 10. 804; *Pall. Elench.* 52.
Flustra foliacea, *Linn. Syst.* 1300; *Müll. Zool. Dan. Prod.* 253; *Ellis and Soland. Zooph.* 12. pl. 2. fig. 8; *Esper, Pflanz. Flust.* t. 1. figs. 1, 2; *Van Beneden, Recherch.* 56. pl. 7. figs. 11, 17; *Berk. Syn.* i. 214; *Lamk. Anim. s. Vert.* ii. 156, ed. 2. ii. 219; *Grant, Edinb. New Phil. Journ.* iii. 111, 337; *Flem. Brit. Anim.* 535; *Johnst. Trans. Newc. Soc.* ii. 263; *Mag. Nat. Hist.* iii. 483. fig. 120; *Templeton, ibid.* ix. 469; *Risso, L'Europ. Mérid.* v. 333; *Blainv. Actinol.* 450. pl. 75. fig. 1; *Couch, Zooph. Cornw.* 53; *Corn. Faun.* iii. 121. pl. 21. fig. 1; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 343. t. 62. figs. 1, 2.

*a*. Dry. Frond short, broad. The Tay, Dundee, W. Jackson, jun. Presented by G. Johnston, M.D.
*b*. Dry. Frond short, broad. Frith of Forth. Presented by G. Johnston, M.D.
*c*, *d*, *i*. Dry. Frond elongate, narrow. Frith of Forth. Presented by G. Johnston, M.D.
*e*. Dry. Frond elongate, narrow. Berwick Bay. Presented by G. Johnston, M.D.
*f*. Dry. Frond elongate, end of branches dilated. Ireland, A. H. Hassall. Presented by G. Johnston, M.D.
*g*, *h*. Tay. Presented by Capt. Ducane, R.A.
*j*. Spread on shell with Lepralia biforis. Presented by G. Johnston, M.D.

2. FLUSTRA membranacea.

Flustra membranacea, *Linn. Syst.* 1301; *Fabr. Faun. Grœnl.* 437; *Müll. Zool. Dan. Prod.* 253; *Ellis and Soland. Zooph.* 18; *Flem. Brit. Anim.* 536; *Johnst. Trans. Newc. Soc.* ii. 265; *Blainv. Actinol.* 450; *Couch, Zooph. Cornw.* 55; *Corn. Faun.* iii. 123. pl. 21. fig. 2; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 348. t. 66. figs. 1, 2, 3.

Fl. telacea, *Lamk. Anim. s. Vert.* ed. 2. ii. 223; *Grant, loc. cit.* iii. 111.

Membranipora membranacea, *Blainv. Actinol.* 447.

*a, b, c, d, e.* On Fucus. Berwick Bay. Presented by G. Johnston, M.D.

*f.* On Gigastina. "Ayrshire, Rev. D. Landsborough." Presented by G. Johnston, M.D.

*g.* On Fucus vesiculosus. Presented by G. Johnston, M.D.

*h.* Patch on Fucus. Holy Island. Presented by G. Johnston, M.D.

## 2. CHARTELLA.

Flustra, sp. *Linn.*; *Johnst. Brit. Zooph.* ed. 2. p. 343.
Chartella, *Gray, Appendix and Proc. Zool. Soc.* 1848.

1. CHARTELLA papyracea.

Eschara papyracea utrinque cellifera, summitatibus securis aciei instar truncatis, *Ellis, Corall.* pl. 38. fig. 8.

Flustra papyracea, *Ellis and Soland. Zooph.* 13; *Flem. Brit. Anim.* 535; *Lister, Phil. Trans.* 1834, 384. pl. 12. fig. 3; *Milne-Edwards, Lam. Anim. s. Vert.* ed. 2. ii. 220; *Blainv. Dict. Sci. Nat.* lx. 415.

F. chartacea, *Turt. Gmel.* iv. 663; *Turt. Brit. Faun.* 209; *Stew. Elem.* ii. 436; *Couch, Corn. Faun.* iii. 121; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 343. t. 60. figs. 5, 6; *Lamx. Pol. Flex.* 104.

*a, b, c, d.* Dry. Blackrock, Dublin. Presented by G. Johnston, M.D.

*e, f.* Dry. Hastings, Sussex. Presented by G. Johnston, M.D.

2. CHARTELLA securifrons.

Fucus marinus scruposus, *Raii Syn.* 43. no. 10; *Morris, Hist. Plant. Oxon.* iii. 546. t. 1. fig. 17 (opt.).

Narrow-leaved Hornwrack, *Ellis, Corall.* 69. no. 1. t. 28. fig. 1. *a*, A, B.

Eschara foliacea *β*, *Linn. Syst.* ed. 10. 804.

E. securifrons, *Pall. Elench.* 56.

Flustra truncata, *Linn. Syst.* 1300; *Müll. Zool. Dan. Prod.* 253; *Ellis and Soland. Zooph.* 11; *Berk. Syn.* i. 214; *Esper, Pflanz. Flust.* t. 3. figs. 1, 2; *Oliv. Zool. Adriat.* 274; *Lamk. Anim. s. Vert.* ed. 2. ii. 219; *Grant, loc. cit.* 111; *Flem. Brit. Anim.* 535; *Johnst. Trans. Newc. Soc.* ii. 264. pl. 12. fig. 1; *Templeton, Mag. Nat. Hist.* ix. 469; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 344. t. 62. figs. 3, 4; *Blainv. Dict. Sci. Nat.* lx. 415.

*a.* Dry, on paper. Frith of Forth. Presented by G. Johnston, M.D.

*b.* Dry, on paper. Belfast Bay, R. Paterson, Esq. Presented by G. Johnston, M.D.

*c, d.* Dry, on paper. Northumberland. Presented by G. Johnston, M.D.

*e.* With Sertularia polyzonias. Presented by G. Johnston, M.D.

### 3. Carbasea.

Flustra, sp. *Linn.*; *Johnst. Brit. Zooph.*
Carbasea, *Gray, Appendix, Proc. Zool. Soc.* 1848.

1. Carbasea papyracea.

Porus cervinus, *Marsil. Hist. Phys. de la Mer,* 64. pl. 6. figs. 25, 26.
Eschara papyrea, *Pall. Zooph.* 56.
Flustra Carbasea, *Ellis and Soland. Zooph.* 14. pl. 3. figs. 6, 7; *Turt. Gmel.* iv. 663; *Jameson, Wern. Mem.* i. 563; *Turt. Brit. Faun.* 209; *Stew. Elem.* ii. 436; *Lamk. Anim. s. Vert.* ed. 2. ii. 221; *Flem. Brit. Anim.* 535; *Grant, Edin. New Phil. Journ.* iii. 111; *Johnst. Trans. Newc. Soc.* ii. 264. pl. 9. fig. 4; *Templeton, ut sup. cit.* 469; *Roget, Bridgw. Treat.* i. 165. figs. 63, 64, & 172. figs. 69, 70; *Dalyell, Edin. New Phil. Journ.* xvii. 413; *Rep. Brit. Assoc.* 1834, 603; *Blainv. Dict. Sci. Nat.* lx. 415; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 345. t. 63. figs. 1, 2.
Flustra papyracea, *Esper, Pflanz. Flust.* t. 2. figs. 1–3.

*a, b, d.* Dry, on paper. Coast of Northumberland. Presented by G. Johnston, M.D.

*c.* Dry, on paper. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

### 4. Avicularia.

Avicularia, *J. V. Thompson, MSS.* 1847; *Gray, Proc. Zool. Soc.* 1848.

1. AVICULARIA flabellata.

Corallina cum appendiculis lateralibus avium capitum formâ, *Ellis, Corall.* pl. 58. fig. 7.
Cellularia Avicularia β, *Pallas, Elench.* 68.
Flustra avicularis, *Sow. Brit. Misc.* ii. 21. pl. 71; *Flem. Brit. Anim.* 536; *Johnst. Trans. Newc. Soc.* ii. 265; *Blainv. Dict. Sci. Nat.* lx. 416; *Man. Act.* 451; *Couch, Zooph. Cornw.* 54; *Corn. Faun.* iii. 122; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 346. t. 63. figs. 3, 4.
F. angustiloba, *Lamk. Hist. Anim. s. Vert.* ii. 158, ed. 2. ii. 222?
F. capitata, *Hogg's Stock.* 36.
Crisia flustroides, *Lamour. Corall. Flex.* 141?
Avicularia flabellata, *J. V. Thompson, MSS. Brit. Mus.*
*a.* Dry, on paper. Dublin Bay, R. Ball, Esq. Presented by G. Johnston, M.D.
*b, c, d.* Dry. Presented by G. Johnston, M.D.
*e.* Dry, on paper. Cork, J. V. Thompson, Esq. Presented by G. Johnston, M.D.

### 5. FLABELLARIA.

Flabellaria, *Gray, Appendix, Proc. Zool. Soc.* 1848.
Flustra, sp. *Johnst. Brit. Zooph.* ed. 2. 347; *Gray, Proc. Zool. Soc.* 1847.
Sertularia, sp. *Olivi, Zool. Adriat.* 291.

1. FLABELLARIA spiralis.

Flustra Murrayana, *Bean, MSS.*; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 347. t. 63. figs. 5, 6.
Sertularia spiralis, *Olivi, Zool. Adriat.* 291. t. 6. f. 2.
*a, b.* Dry. Coast of Northumberland. Presented by G. Johnston, M.D.
*c, d, e.* "Flustra Murrayana. Scarborough, W. Bean, Esq." Presented by G. Johnston, M.D.
*f, g.* Dry. "Zetland, E. Forbes, Esq." Presented by G. Johnston, M.D.
*h, i.* Dry. Orkney. Presented by G. Johnston, M.D.
*k.* With Cellularia ternata. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

2. FLABELLARIA setacea.

Flustra Ellisii, *Flem. Wern. Mem.* ii. 251. t. 17. figs. 1–3.
Flustra setacea, *Flem. Brit. Anim.* 536; *Johnst. Brit. Zooph.* ed. 2. p. 346; *Blainv. Dict. Sci. Nat.* lx. 416.
Inhab. Zetland, Northmavine, *Fleming*, 1808.

### 6. Annulipora.

Annulipora, *Gray, Appendix, Proc. Zool. Soc.* 1848.
Membranipora, *Johnst. Brit. Zooph.* 327; not *Blainv.*
Discopora, sp. *Lamk.* 1816.
Flustra, sp. *Müller*; *Lamk.* 1816.

1. Annulipora pilosa.

Irregular spongy foliaceous Coralline, *Ellis, Corall.* 73. no. 4. pl. 31.
Eschara pilosa, *Pallas, Elench.* 50.
Flustra pilosa, *Linn. Syst.* 1301; *Müll. Zool. Dan. Prod.* 253; *Ellis and Soland. Zooph.* 13; *Esper, Pflanz. Flust.* t. 4. figs. 1, 2; *Berk. Syn.* i. 214; *Lamk. Anim. s. Vert.* ii. 159, ed. 2. ii. 224; *Blainv. Dict. Sc. Nat.* lx. 415; *Grant, Edin. New Phil. Journ.* iii. 111; *Flem. Brit. Anim.* 537; *Risso, L'Europ. Mérid.* v. 335; *Johnst. Trans. Newc. Soc.* ii. 265. pl. 9. fig. 5; *Lister, Phil. Trans.* 1834, 384. pl. 12. fig. 2; *Templeton, Mag. Nat. Hist.* ix. 469.
Membranipora pilosa, *Johnst. Brit. Zooph.* 280. pl. 34. figs. 10–12; *Couch, Corn. Faun.* iii. 119; *Van Beneden, Recherch.* 53. figs. 1–10; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 327. t. 56. fig. 6.
Var. 1. On flat sea-weeds assuming a stellate form.
Membranipora pilosa var. *a, Johnst. Brit. Zooph.* 327. t. 56. f. 6.
Membranipora stellata, *W. Thompson, Ann. Nat. Hist.* v. 101; *Hassall, Ann. & Mag. Nat. Hist.* vii. 369.
*a, d.* On filiform sea-weed. Presented by G. Johnston, M.D.
*e.* River Tay. Presented by Capt. Ducane, R.A.
*b, c.* Presented by G. Johnston, M.D.
*f.* Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.
*g.* Ireland, with Flustra lineata, W. Thompson, Esq. Presented by G. Johnston, M.D.
*h.* Ireland, with Flustra lineata and Lepralia hyalina, W. Thompson, Esq. Presented by G. Johnston, M.D.

2. Annulipora dentata.

Flustra dentata, *Ellis and Soland. Zooph.* 15; *Turt. Brit. Faun.* 209; *Lamk. Hist. Anim. s. Vert.* ii. 158, ed. 2. ii. 224; *Templeton, Mag. Nat. Hist.* ix. 469.
Flustra lineata, *Esper, Pflanz. Flust.* t. 6 (? not good).
Membranipora pilosa, *Farre, Phil. Trans.* 1837, 412. t. 27. figs. 1–5.
Membranipora pilosa var. β, *Johnst. Brit. Zooph.* 327.
Eschara millepora, *Ellis, Corall.* t. 29. fig. D; *Ellis, Phil. Trans. abridg.* x. 492. t. 12. fig. 4. D.
*a.* On wood. Presented by G. Johnston, M.D.

### 7. Flustrella.

Flustrella, *Gray, Appendix, Proc. Zool. Soc.* 1848.
Flustra, sp. *O. Fabr.*; *Blainv.*; *Johnst.*
Membranipora, sp. *Johnst. Brit. Zooph.* ed. 1. 282.
Alcyonidium, sp. *Johnst. Brit. Zooph.* ed. 2. 363.

1. Flustrella hispida.

Flustra hispida, *Fabr. Faun. Grœnl.* 438; *Jameson, Wern. Mem.* i. 563; *Flem. Brit. Anim.* 537; *Johnst. Trans. Newc. Soc.* ii. 266. pl. 9. fig. 7; *Blainv. Act.* 450.
Flustra spongiosa, *Templeton, Loud. Mag. Nat. Hist.* ix. 469; *W. Thompson, Ann. Nat. Hist.* v. 253.
Membranipora spongiosa, *Johnst. Brit. Zooph.* 282.
Flustra carnosa, *Johnst. Brit. Zooph.* 288. pl. 37. fig. 5; *Couch, Corn. Faun.* iii. 125; *Hassall, Ann. & Mag. Nat. Hist.* vii. 369.
Alcyonidium? hispidum, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 363.
*a & b.* Dry, on paper. Flustra spongiosa! "From R. Brown, Esq." Presented by G. Johnston, M.D.
*c.* Dry, on paper. Flustra spongiosa. Presented by G. Johnston, M.D.
*d.* Dry, on paper. "Flustra carnosa." Presented by G. Johnston, M.D.

### 8. Conopeum.

Conopeum, *Gray, Appendix, Proc. Zool. Soc.* 1848.
Flustra, sp. *Hassall, Ann. Nat. Hist.* vii. 369; *Johnst. Brit. Zooph.* 350.
Lepralia, sp. *Johnst. Brit. Zooph.* ed. 2. 350.
Membranipora, sp. *Blainv. Man. Act.* 447; *Johnst. Brit. Zooph.* ed. 2. 350.
Discopora, sp. *Lamk. Hist.* ii. 167, ed. 2. ii. 251.

1. Conopeum reticulum.

Millepora reticulum, *Esper, Millep.* t. 11. figs. 1, 2 (on shell).
Discopora reticulum, *Lamk. Hist.* ii. 167, ed. 2. ii. 250.
Membranipora reticulum, *Blainv. Man. Act.* 447.
Flustra distans, *Hassall, Ann. Nat. Hist.* vii. 369; *Johnst. Brit. Zooph.* 350.
Flustra hibernica, *Hassall, Ann. & Mag. Nat. Hist.* vi. 172. t. 7. fig. 1. vii. 370.
Lepralia pedilostoma part., *Johnst. Brit. Zooph.* ed. 2. 315.
Membranipora membranacea?, *Johnst. Brit. Zooph.* t. 57. figs. 11, 12.
Flustra Peachii, *Couch, 9th Rep. Cornwall Polytechnic Soc.* 81.
? Flustra Savartii, *Aud. Exp.* i. 240, *from Savigny, Egypt. Polypes,* t. 10. fig. 10.
Membranipora Peachii, *Couch, Corn. Faun.* iii. 120. t. 22. fig. 13.

*a*. On rock. "Flustra distans." Presented by G. Johnston, M.D.
*b*. On rock. "Flustra fallax." Presented by G. Johnston, M.D.
*c*. On slate. "Flustra Peachii or Lepralia pedilostoma." Presented by G. Johnston, M.D.
*d*. On Mytilus edulis. "Flustra Peachii, *Couch*, or Lepralia pedilostoma." Presented by G. Johnston, M.D.
*e*, *f*. On Mytilus edulis. "Flustra Peachii, from Mr. Peach." Presented by G. Johnston, M.D.
*g*. On rock. Lepralia pedilostoma. Presented by G. Johnston, M.D.
*h*. ? On slate. In bad state: the network between the thinner and discoloured "Flustra Peachii! a state of Membranipora membranacea." Presented by G. Johnston, M.D.
*i*. On a shell. In bad state: like *h*, "a state of Membranipora membranacea." Presented by G. Johnston, M.D.

### 9. Callopora.

Callopora, *Gray, Appendix, Proc. Zool. Soc.* 1848.
Flustra, sp. *Linn.*; *Johnst. Brit. Zooph.*

1. Callopora lineata.

Flustra lineata, *Linn. Syst.* 1301; *Müll. Zool. Dan. Prod.* 253; *Fabr. Faun. Grœnl.* 437; *Jameson, Wern. Mem.* i. 563; *Couch, Zooph. Cornw.* 55; *Corn. Faun.* iii. 124; *W. Thompson, Ann. Nat. Hist.* v. 253; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 349. t. 66. fig. 4. & p. 350.
Flustra spinifera, *Johnst. Trans. Newc. Soc.* ii. 266. pl. 9. fig. 6.
Fl. hirta, *Lamour. Corall.* 49; *Bosc, Vers*, iii. 144; *Risso, L'Europ. Mérid.* v. 334.
*a*, *b*. Presented by G. Johnston, M.D.
*c*. With Lepralia coccinea, L. trispinosa, and L. immersa. Presented by G. Johnston, M.D.
*d*. With Lepralia coccinea. Presented by G. Johnston, M.D.
*e*. On slate, with Lep. coccinea and L. nitida. Presented by G. Johnston, M.D.
*f*. On algæ. Presented by G. Johnston, M.D.
*g*. On algæ. "Lepralia nitida var." Presented by G. Johnston, M.D.
*h*. On stone. "Flustra fallax, a state of Lepralia tenuis." Presented by G. Johnston, M.D.

### 10. Amphiblestrum.

Amphiblestrum, *Gray, Appendix, Proc. Zool. Soc.* 1848.
Membranipora, sp. *Blainv.*; *Johnst. Brit. Zooph.* ed. 2; *M.-Edw. Lamk. Hist.* ed. 2. ii. 225.
Flustra, sp. *Müller*; *Johnst. Brit. Zooph.* ed. 1.

1. Amphiblestrum membranaceum.

Flustra membranacea, *Müll. Zool. Dan. Prod.* 253. no. 3054; *Zool. Dan.* iii. 63. t. 117. figs. 1, 2; *Fabr. Faun. Grœnl.* 437; *Lamour. Corall.* 47; *M.-Edw. Lamk. Hist.* ed. 2. ii. 225; *Blainv. Man. Act.* 450.
Membranipora membranacea, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 328. t. 56. fig. 7. & p. 478; *not Blainv. Dict. Sc. Nat.* 412.
Flustra unicornis, *Flem. Edin. Phil. Journ.* ii. 87; *Flem. Brit. Anim.* 236; *Blainv. Act.* 450; *Johnst. Trans. Newc. Soc.* ii. 266.
Membranipora unicornis, *Blainv. D. S. N.* lx. 412; *Man. Act.* 447.
Flustra tuberculata, *Johnst. Brit. Zooph.* 289; *Bosc, Vers,* iii. 143.
Flustra Peachii, *Couch, Rep. Corn. Polytechnic Soc.* 81 (see *Johnst. Brit. Zooph.* 478).
*a, b, c, d, e.* On shells and stone. Berwick Bay. Presented by G. Johnston, M.D.
*f.* On slate. "Flustra unicornis." Presented by G. Johnston, M.D.
*g.* On flint. "F. unicornis var." Presented by G. Johnston, M.D.
*h.* On a shell. "Lepralia indentata, *Hassall?*" Presented by G. Johnston, M.D.
N. B. Flustra arenosa, *Ellis and Soland. Zooph.* 17; *Stew. Elem.* ii. 437; *Bosc, Vers,* iii. 142; *Johnst. Hist. B. Z.* ed. 2. p. 350.
Millepora arenosa anglica, *Raii Syn.* i. 31.
English sandy Millepore, *Ellis, Corall.* 74. no. 5. pl. 25. fig. *e.*
Eschara lutosa, *Pall. Elench.* 37.
Alcyonium arenosum, *Turt. Gmel.* iv. 564; *Turt. Brit. Faun.* 207.
According to Mr. Boys "is undoubtedly the nidus of some marine animal, as I have found the cells entire, with eggs in each." *Linn. Trans.* v. 231. Mr. J. Hogg has proved that it is the nidus of Natica monilifera, *Linn. Trans.* xiv. 318, &c.

### Fam. 5. Bugulidæ.

Bugulidæ, *Gray, Appendix, Proc. Zool. Soc.* 1848.
Cellularidæ part., *Johnst. Brit. Zooph.*
Escharidæ part., *Johnst. Brit. Zooph.* ed. 1. 248, ed. 2. 264; *Gray, Syn. Brit. Mus.* 1847, 135.

## 1. Crisularia.

Crisularia, *Gray, Appendix, Proc. Zool. Soc.* 1848.
Crisia, sp. *Lamx.* 1812, 1816.
Bicellaria, sp. *Blainv.* 1830.
Cellularia, sp. *Pallas*; *Johnst. Brit. Zooph.*
Cellaria, sp. *Soland.*

1. Crisularia plumosa.

Corallina pumila erecta ramosior, *Raii Syn.* i. 37. no. 20. t. 2. fig. 1; *Ellis, Phil. Trans. abridg.* x. 346. pl. 8. fig. *b*, B, D.
Soft-feathered Coralline, *Ellis, Corall.* 33. no. 1. pl. 18. fig. *a*, A.
Sertularia fastigiata, *Linn. Syst.* 1314; *Fabr. Faun. Grœnl.* 445; *Berk. Syn.* i. 219.
Cellularia plumosa, *Pall. Elench.* 66; *Couch, Corn. Faun.* iii. 128. pl. 23. fig. 4; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 341. t. 61. figs. 1–5.
Cellularia fastigiata, *Blumenb. Man.* 273; *Flem. Brit. Anim.* 539.
Cellaria plumosa, *Ellis and Soland. Zooph.* 21; *Lamk. Anim. s. Vert.* ed. 2. ii. 120.
Crisia plumosa, *Lamour. Bull. Soc. Phil.* 1812, iii. 185; *Corall.* 62.
Crisia fastigiata, *Templeton, Ann. & Mag. Nat. Hist.* ix. 468.
Bicellaria plumosa, *Blainv. Dict. Sc. Nat.* lx. 424; *Act.* 459.
*a, b, c.* Copinsha, 1 mile 37 fathoms, June 1845. Presented by G. Johnston, M.D.
*d.* Torquay, Devonshire, Dr. C. Presented by G. Johnston, M.D.
*e, f, g.* Presented by G. Johnston, M.D.

## 2. Scupocellaria.

Scupocellaria, *Van Beneden*; *Recherch.* 43.
Bicellaria, sp. *Blainv.* 1830.
Cellularia, sp. *Pallas*; *Flem.*
Cellaria, sp. *Soland.*; *Lamk.* 1816.
Scuparia, sp. *Oken, Lehrb. Nat.* 90, 1816.

1. Scupocellaria scruposa.

Creeping stony Coralline, *Ellis, Corall.* 38. no. 4. pl. 20. *c*, C.
Celliferous Coralline with angular edges to its cells, *Ellis, Phil. Trans.* xlviii. pl. 13. no. 7; *Phil. Trans. abridg.* x. 493. fig. 7. K, L.
Sertularia scruposa, *Linn. Syst.* 1315; *Esper, Pflanz. Sert.* t. 15. figs. 1–3; *Berk. Syn.* i. 220.
Cellularia scruposa, *Pall. Elench.* 72; *Flem. Brit. Anim.* 539; *Couch, Zooph. Cornw.* 57; *Corn. Faun.* iii. 126. pl. 23. fig. 2; *Reid, Ann. & Mag. Nat. Hist.* xv. 69. & xvi. 388; *Johnst. Hist. Brit. Zooph.* ed. 2. t. 58. figs. 5, 6.

Cellaria scruposa, *Ellis and Soland. Zooph.* 23; *Bosc, Vers,* iii. 132. pl. 29. fig. 7; *Lamk. Anim. s. Vert.* ii. 141. ed. 2. ii. 192; *Johnst. Trans. Newc. Soc.* ii. 261. pl. 11. fig. 5.
Scuparia scruposa, *Oken, Lehrb. Nat.* 90.
Crisia scruposa, *Lamour. Corall.* 60; *Templeton, lib. cit.* ix. 469.
Bicellaria scruposa, *Blainv. Act.* 459.
Scupocellaria scruposa, *Van Beneden, Recherch.* 43. & 50. pl. 5. figs. 8–16.
*a, b, c.* On Flustra. Liverpool, — Rylands, Esq. Presented by G. Johnston, M.D.
*d.* ————? Presented by G. Johnston, M.D.

2. SCUPOCELLARIA reptans.

Creeping Coralline, *Ellis, Corall.* 37. pl. 20. no. 3. fig. *b*, B.
Sertularia reptans, *Linn. Syst.* 1315; *Fabr. Faun. Grœnl.* 445.
S. repens, *Berk. Syn.* i. 220.
Cellularia reptans, *Pall. Elench.* 73; *Flem. Brit. Anim.*; *Johnst. Brit. Zooph.* 291. pl. 38. figs. 3, 4; *Couch, Zooph. Cornw.* 57; *Corn. Faun.* iii. 127. pl. 23. fig. 3; *Reid, Ann. & Mag. Nat. Hist.* xvi. 385; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 337. t. 58. figs. 3, 4.
Cellaria reptans, *Ellis and Soland. Zooph.* 23; *Lamk. Anim. s. Vert.* ed. 2. ii. 191; *Johnst. Trans. Newc. Soc.* ii. 262.
Scuparia reptans, *Oken, Lehrb. Nat.* 90.
Crisia reptans, *Lamour. Corall.* 60; *Templeton, Mag. Nat. Hist.* ix. 469.
Bicellaria reptans, *Blainv. Act.* 459.
*a, b, c, d.* On sea-weed. Cornwall. Presented by G. Johnston, M.D.
*e.* On Corallines. Cornwall. Presented by G. Johnston, M.D.
*f.* On Flustra. Berwick Bay. Presented by G. Johnston, M.D.
*g.* Coast of England. Presented by G. Johnston, M.D.
*h.* Berwick Bay. Presented by G. Johnston, M.D.

3. BICELLARIA.

Bicellaria, *Blainv. D. S. N.* 1830.
Cellularia, *Flem. Brit. Anim.* 1828.
Cellularia, sp. *Pallas.*
Cellaria, sp. *Soland.*; *Lamk.* 1816.
Bugula *a*, sp. *Oken, Lehrb. Nat.* 89.

1. BICELLARIA ciliata.

Ciliated Coralline, *Ellis, Corall.* 38. no. 5. pl. 20. *d*, D.
Sertularia ciliata, *Linn. Syst.* 1316; *Berk. Syn.* i. 230; *Esper, Pflanz. Sert.* t. 14. figs. 1, 2.
Cellularia ciliata, *Pall. Elench.* 74; *Flem. Brit. Anim.* 540.

Cellaria ciliata, *Ellis and Soland. Zooph.* 24; *Lamk. Anim. s. Vert.* ii. 139, ed. 2. ii. 186.
Bugula ciliata, *Oken, Lehrb. Nat.* 89.
Crisia ciliata, *Lamour. Corall.* 60; *Templeton, Mag. Nat. Hist.* ix. 468; *Van Beneden, Mém.* 51. pl. 6. figs. 9–11.
Bicellaria ciliata, *Blainv. Act.* 459.
Cellularia ciliata, *Johnst. Brit. Zooph.* 291. pl. 38. figs. 1, 2; *Couch, Zooph. Cornw.* 56; *Corn. Faun.* iii. 126. pl. 23. fig. 1; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 335. t. 58. figs. 1, 2.
*a, b, c.* Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

### 4. CANDA.

Canda, *Lamx.* 1816 & 1821; *Blainv.* 1830.
Cellaria, sp. *Lamk.* 1816.
Cellularia, sp. *Flem.* 1828.
Bicellaria, sp. *Blainv.* 1830.

1. CANDA arachnoidea.

Canda arachnoidea, *Lamx. Pol. Flex.* 132. t. 2. fig. 6 (1816); *Zooph.* 5. t. 64. figs. 19, 20; *Blainv. Dict. Sc. Nat.* lx. 421; *Man. Act.* 467. t. 79. f. 2.
Cellularia Hookeri, *Flem. Brit. Anim.* 539 (1828); *Johnst. Hist. Brit. Zooph.* ed. 2. p. 338. t. 60. figs. 1, 2.
Bicellaria Hookeri, *Blainv. Dict. Sc. Nat.* lx. 424.
Cellaria filifera, *Lamk. Hist.* ii. 156 (1816), ed. 2. ii. 171.
*a. Brit. Zooph.* t. 60. figs. 1, 2. Orkney, E. Forbes, Esq. Presented by G. Johnston, M.D.

### 5. TRICELLARIA.

Tricellaria, *Flem. B. A.* 1828; *Blainv. D. S. N.* 1830.
Cellaria, sp. *Soland.*; *Lamk.*
Crisia, sp. *Lamx.* 1816.
Cellularia, sp. *Johnst.*

1. TRICELLARIA ternata.

Cellaria ternata, *Ellis and Soland. Zooph.* 30.
Sertularia ternata, *Turt. Gmel.* iv. 687.
Crisia ternata, *Lamx. Corall. Flex.* 61.
Tricellaria ternata, *Flem. Brit. Anim.* 540; *Blainv. Act.* 458.
Cellularia ternata, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 335. t. 59.
*a, b.* On Plumularia. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.
*c.* Separate fragment. Presented by G. Johnston, M.D.

### 6. Bugula.

Bugula *a*, sp. *Oken, Lehrb. Nat.* 89, 1815 (type).
Acamarchis, *Lamx.* 1816; *Blainv.* 1830.
Crisia, sp. *Lamx.* 1812.
Cellularia, sp. *Pallas.*
Cellaria, sp. *Soland.*; *Lamk.* 1816.

#### 1. Bugula Neritina.

Remarkable Coralline, *Ellis, Phil. Trans. abridg.* x. 345. pl. 8. figs. *a*, A, G; *Ellis, Corall.* 35. pl. 19.
Sertularia Neritina, *Linn. Syst.* 1315; *D. Chiaje, Anim. s. Vert. Nap.* iv. 147; *Esper, Sert.* t. 13. figs. 1–3.
Cellularia Neritina, *Pall. Elench.* 67; *Flem. Brit. Anim.* 539; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 340. t. 60. figs. 3, 4.
Cellaria Neritina, *Ellis and Soland. Zooph.* 22; *Lamk. Anim. s. Vert.* ed. 2. ii. 190; *Esper*, t. 13. figs. 1, 2, 3.
Bugula Neritina, *Oken, Lehrb. Nat.* 89.
Acamarchis Neritina, *Lamx. Cor. Flex.* 58. pl. 3. fig. 2; *Zooph.* 6; *Risso, L'Europ. Mérid.* v. 318; *Blainv. Dict. Sc. Nat.* lx. 423; *Man. Act.* 459. pl. 77. fig. 3.
Crisia Neritina, *Lamx. Bull. Soc. Phil.* 1812, iii. 183.

*a*. Large, reddish, *B. Z.* t. 60. figs. 3, 4. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.
*b*. Var. slender, transparent. Tynemouth. Presented by G. Johnston, M.D.
*c, d*. Var. slender, transparent. ————? Presented by G. Johnston, M.D.
*e*. Var. slender, transparent. ————? Presented by G. Johnston, M.D.

### 7. Bugulina.

Bugulina, *Gray, MSS.*
Cellularia, *Van Beneden.*
Cellularia *c*, *Johnst.* 1847.
Bugula *β*, *Oken, Lehrb. Nat.* 90, 1815.

#### 1. Bugulina avicularia.

Bird's-head Coralline, *Ellis, Corall.* 36. no. 2. pl. 20. fig. *a*, A.
Cellularia avicularia, *Pall. Elench.* 68; *Johnst. Brit. Zooph.* 292. pl. 36. figs. 7, 8; *Couch, Zooph. Cornw.* 58; *Corn. Faun.* iii. 128; *Van Beneden, Recherch.* 41 & 48. pl. 6. figs. 1–8; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 339. t. 63. figs. 7, 8.
Sertularia avicularia, *Linn. Syst.* 1315; *Berk. Syn.* i. 220.
Cellaria avicularia, *Ellis and Soland. Zooph.* 22; *Lamk. Anim. s. Vert.* ed. 2. ii. 191; *Johnst. Trans. Newc. Soc.* ii. 26.

Bugula avicularia, *Oken, Lehrb. Nat.* 90.
Crisia avicularia, *Lamx. Bull. Soc. Phil.* 1812, iii. 183; *Cor. Flex.* 141; *Templeton, Mag. Nat. Hist.* ix. 468.
Cellularia avicularis, *Reid, Ann. & Mag. Nat. Hist.* xvi. 389.
*a, b.* Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

### Fam. 6. Microporidæ.

Microporidæ, *Gray, Appendix, Proc. Zool. Soc.* 1848.

#### 1. Micropora.

Micropora, *Gray, Appendix, Proc. Zool. Soc.* 1848.
Discopora, sp. *Lamk. Hist. Anim. s. Vert.* 1816 (not the type); *Lamx. Ency.*; *Blainv. Dict. Sc. Nat.* lx. 1830; *Man. Act.* 445.
Cellepora, sp. *Gmel.*
Flustra, sp. *Esper*; *Blainv. Man. Act.* 446; *M.-Edw. Lamk. Hist.* ed. 2. ii. 251.

1. Micropora coriacea.

Flustra coriacea, *Esper, Pflanz. Flust.* t. 7. fig. 2; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 349. t. 56. fig. 8.
Discopora coriacea, *Lamk. Hist.* ii., ed. 2. ii. 251; *Lamx. Ency. Méth.* 255; *Blainv. Dict. Sc. Nat.* lx. 411; *Man. Act.* 446.
Flustra Latreillii, *Audouin, Expl.* i. 240, from *Savigny, Egypt. Polypes*, t. 19. fig. 8.
*a, b.* On shells. Sana Island. Presented by G. Johnston, M.D.

### Fam. 7. Celleporidæ.

Celleporidæ, *Gray, Syn. Brit. Mus.* 1842, 135; *Johnst. Brit. Zooph.* ed. 1. 247, ed. 2. 295.
Escharidæ part., *Johnst. Brit. Zooph.* ed. 1. 247, ed. 2. 263.
Crisiadæ part., *Johnst. Brit. Zooph.* ed. 1. 247, ed. 2. 263.

#### 1. Hippothoina.

##### 1. Hippothoa.

Hippothoa, *Lamx. Exp. Méth.* 82, 1821; *Johnst. Brit. Zooph.* ed. 2. 291 (not *Syn.*).
Catenicella (part.), *Blainv.* 1830 (agrees with *character*), not *M.-Edwards.*
"Terebripora, *D'Orbigny.*"
Tubulipora, sp. *Jameson.*

1. HIPPOTHOA catenularia.

Tubipora catenularia, *Jameson, Wern. Mem.* i. 561.
Tubipora catenulata, *Stew. Elem.* ii. 425.
Hippothoa catenularia, *Flem. Brit. Anim.* 534; *Hassall, Ann. & Mag. Nat. Hist.* vi. 170; *Couch, Zooph. Cornw.* 43; *Corn. Faun.* iii. 101. pl. 18. fig. 5; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 291. t. 50. figs. 9, 10.
Hippothoa Elliotæ, *Gray, Zool. Misc.* 34.
*a, b, c, d.* On shells. Sana Island. Presented by G. Johnston, M.D.
*e, f.* Cork, with H. divaricata and Diastopora Obelia. Presented by G. Johnston, M.D.

2. HIPPOTHOA divaricata.

Hippothoa divaricata, *Lamx. Expos. Méth.* 82. t. 80. figs. 15, 16; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 292. t. 51. figs. 3, 4.
Catenicella divaricata, *Blainv. D. S. N.* 1830, lx. 427; *Man. Act.*
Hippothoa lanceolata, *Gray, Zool. Misc.* 35; *Hassall, Ann. & Mag. Nat. Hist.* vii. 366. pl. 8. figs. 5, 6; *Couch, Zooph. Cornw.* 43; *W. Thompson, Ann. Nat. Hist.* v. 252; *Couch, Corn. Faun.* iii. 102. pl. 18. fig. 6.
*a, e, f, g, h.* Sana Island. Presented by G. Johnston, M.D.
*i.* (H. lanceolata) with Lepralia verrucosa, L. reticulata, Peach. Presented by G. Johnston, M.D.
*j, k, l.* On worn Pectens. "H. lanceolata." Presented by G. Johnston, M.D.
Var. *β*. Cells contiguous on sea-weed.
*b, c, d.* Bootle, Cheshire, Ayrshire, and Ireland. Presented by G. Johnston, M.D.

3. HIPPOTHOA sica.

Hippothoa sica, *Couch, Corn. Faun.* iii. 102. pl. 19. fig. 8; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 293.
Inhab.

4. HIPPOTHOA cassiterides.

Hippothoa cassiterides, *Couch, Johnst. Hist. Brit. Zooph.* ed. 2. p. 476. fig. 87.
Inhab.

## 2. LEPRALIANA.

### 4. CRIBRILINA.

Cribrilina, *Gray, Appendix, Proc. Zool. Soc.* 1838.
Lepralia, sp. *Hassall, Ann. Nat. Hist.* viii. 368; *Johnst. Brit. Zooph.* ed. 2. 312.

1. CRIBRILINA punctata.

Lepralia arenacea, *Bean, MS.*

Lepralia punctata!, *Hassall, Ann. & Mag. Nat. Hist.* vii. 368. pl. 9. fig. 7; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 312. t. 55. fig. 1. 478.

Lep. pedilostoma, *Couch, Corn. Faun.* iii. 113. pl. 22. fig. 14.

*a, b.* On shell and stone. "L. arenacea." Presented by G. Johnston, M.D.

*c.* On stone. Berwick. "L. arenacea." Presented by G. Johnston, M.D.

*d.* On stone. "L. punctata." Presented by G. Johnston, M.D.

*e.* On stone. "L. punctata!" with L. ansata. Cornwall, W. Peach, Esq. Presented by G. Johnston, M.D.

*f.* On stone. Ayrshire, A. H. Hassall, Esq. Presented by G. Johnston, M.D.

*g.* "L. arenacea, with Flustra lineata." Presented by G. Johnston, M.D.

*h.* Lep. arenacea and L. pedilostoma. Presented by G. Johnston, M.D.

## 5. LEPRALIA.

Lepralia, *Johnst. Brit. Zooph.* ed. 1. 277, 1838, ed. 2. 302.

Berenicea, *Flem. Brit. An.* 533, 1828; not *Lamx. Exp.* 80, 1821, nor *Peron.*

Escharina, sp. *M.-Edw. Lamk. Hist.* ed. 2. ii. 230.

Escharoïde, sp. *M.-Edw. Lamk. Hist.* ed. 2. ii. 259?

Cellepora, sp. *Oken, Lehrb. Nat.* 86, 1815.

1. LEPRALIA Jacotini.

Cellepora Jacotini, *Aud. Expl.* i. 238, from *Savig. Egypt. Polyp.* t. 7. fig. 8.

Lepralia tenuis, *Hassall, Ann. & Mag. Nat. Hist.* vii. 412; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 303. t. 54. fig. 2.

L. vinca, *Couch, Corn. Faun.* iii. 116. pl. 22. fig. 7.

L. catenata, *Peach, MSS.*

*a.* "L. catenata." Presented by G. Johnston, M.D.

*b.* "L. catenata!" Presented by G. Johnston, M.D.

Var. *a.—d.* "The Alderman, *Peach*!" C. W. Peach, Esq. Presented by G. Johnston, M.D.

*e, f, g, h.* Sana Island. Presented by G. Johnston, M.D.

*? i.* On *Fuci.* C. W. Peach, Esq. Presented by G. Johnston, M.D.

2. LEPRALIA assimilis.

Lepralia assimilis, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 304.

Inhab. Dublin Bay, *Hassall.*

3. LEPRALIA simplex.

Lepralia simplex, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 305. t. 54. fig. 4.

*a.*? On Lima. Sana Island. Presented by G. Johnston, M.D.

*b.* On shells with Lep. ventricosa, absorbing a slight pit in the surface. Sana Island. Presented by G. Johnston, M.D.

*c.* With "Lep. tenuis, var." Presented by G. Johnston, M.D.

*d, e, f.* "Lep. simplex!" Presented by G. Johnston, M.D.

4. LEPRALIA ventricosa.

Lepralia ventricosa, *Hassall, Ann. & Mag. Nat. Hist.* vii. 412; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 305. t. 54. fig. 5.

*a.* On stone. Berwick Bay. Presented by G. Johnston, M.D.

*b, c, d, e.* On shells. Presented by G. Johnston, M.D.

5. LEPRALIA ovalis.

Lepralia ovalis, *Hassall, Ann. & Mag. Nat. Hist.* ix. 413; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 307. t. 56. fig. 1.

*a.* On Pholas. Presented by G. Johnston, M.D.

*b, c.* On Pholas with Lep. ovalis, L. annulata, and L. biforis. Presented by G. Johnston, M.D.

6. LEPRALIA 4-dentata.

Lepralia 4-dentata, *Hassall, Ann. & Mag. Nat. Hist.* vi. 171. pl. 6. fig. 5; *Macgillivray, ibid.* ix. 467; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 309.

Inhab. Ireland, *Hassall.* Aberdeen, *Macgillivray.*

7. LEPRALIA granifera.

Lepralia granifera, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 309. t. 54. fig. 7.

Flustra Montferrandi, *Aud. Expl.* i. 240, *from Savig. Egypt.* t. 9. fig. 14.

*a.* On slate. Berwick Bay. Presented by G. Johnston, M.D.

*b.* On stone with Lep. punctata. Presented by G. Johnston, M.D.

*c.* Var. cell subannulate. On stone. Presented by G. Johnston, M.D.

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8. LEPRALIA Landsborovii.

Lepralia Landsborovii, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 310. t. 54. fig. 9.

*a*. On Pinna. Ayrshire, Rev. D. Landsborough. Presented by G. Johnston, M.D.

9. LEPRALIA auriculata.

Lepralia auriculata, *Hassall, Ann. & Mag. Nat. Hist.* ix. 412; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 310. t. 54. fig. 8.

*a*. With Lep. coccinea. Presented by G. Johnston, M.D.

10. LEPRALIA pertusa.

Cellepora pertusa, *Esper, Pflanz. Cellep.* p. 149. t. 10. fig. 2.

Lepralia pertusa, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 311. t. 54. fig. 10.

Escharina pertusa, *M.-Edwards, Lamk. Anim. s. Vert.* ed. 2. ii. 232.

Cellepora perlacea, *W. Thompson, Ann. & Mag. Nat. Hist.* x. 20.

Escharina perlacea, *M.-Edwards, Lamk. Anim. s. Vert.* ed. 2. ii. 234.

*a*, *b*, *c*. Presented by G. Johnston, M.D.

*d*. On Lima. Sana Island. Presented by G. Johnston, M.D.

*e*. On stone with Lep. catenata and L. variolosa. Presented by G. Johnston, M.D.

*f*. With Lep. verrucosa. Presented by G. Johnston, M.D.

11. LEPRALIA figularis.

Lepralia figularis, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 314. t. 56. fig. 2.

*a*. On shell with "Lep. variolosa." Presented by G. Johnston, M.D.

12. LEPRALIA Peachii.

Lepralia Peachii, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 315. t. 54. figs. 5, 6.

*a*. On a Pecten "and another species." Presented by G. Johnston, M.D.

*b*. On shell with Lep. variolosa. Presented by G. Johnston, M.D.

*c*, *d*. With Tubipora orbiculus. Presented by G. Johnston, M.D.

*e*. On shell with "Lep. reticulata." Presented by G. Johnston, M.D.

*f*. On shell with "Flustra lineata." Presented by G. Johnston, M.D.

13. LEPRALIA pedilostoma.

Flustra hibernica, *Hassall, Ann. & Mag. Nat. Hist.* vi. 172. pl. 7. fig. 1, & vii. 370. (The figure quoted "represents a posterior view of the cells, the wall of each cell posteriorly being absent.")

Cellepora? ovoidea, *Lamx.*?; *Audouin, Expl.* i. 238?, *from Savig. Egypt. Polypes*, t. 8. fig. 1?

Lepralia pedilostoma, *Hassall, Ann. & Mag. Nat. Hist.* vii. 368. pl. 9. fig. 4; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 315. t. 54. fig. 7.

Membranipora Peachii, *Couch, Corn. Faun.* iii. 120. pl. 22. fig. 13.

*a.* Black-rock, Dublin. Presented by G. Johnston, M.D.
*b.* On Ostrea. Presented by G. Johnston, M.D.
*d.* On Mytilus. Presented by G. Johnston, M.D.
*e, f.* On stone, Cornwall. Presented by G. Johnston, M.D.
*g.* On stone. Presented by G. Johnston, M.D.
*h.* On stone. Cornwall. Presented by G. Johnston, M.D.
*i.* On stone. Presented by G. Johnston, M.D.
*j.* On stone. Goran. Presented by G. Johnston, M.D.
*k.* "L. pedilostoma!" Dublin Bay, A. H. Hassall, Esq. Presented by G. Johnston, M.D.
*l, m, n, o.* On stones. Presented by G. Johnston, M.D.

14. LEPRALIA reticulata.

Lepralia reticulata, *J. Macgillivray, Ann. & Mag. Nat. Hist.* ix. 467; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 317. t. 55. fig. 10.

*a.* On stone and shell. Presented by G. Johnston, M.D.

15. LEPRALIA fenestralis.

Lepralia fenestralis, *Couch, Corn. Faun.* iii. 117. pl. 22. fig. 8; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 318.

Inhab. Cornwall, *R. Q. Couch.*

16. LEPRALIA nitida.

Cellepora nitida, *Fabr. Faun. Grœnl.* 435. no. 443.

Cellepora (Escharoide) nitida, *M.-Edw. Lamk. Anim. s. Vert.* ed. 2. ii. 259.

Berenicea nitida, *Flem. Brit. Anim.* 533.

Lepralia nitida, *Johnst. Brit. Zooph.* 277. pl. 34. fig. 7; *Hassall, Ann. & Mag. Nat. Hist.* vii. 367; *W. Thompson, Ann. Nat. Hist.* v. 253; *Couch, Corn. Faun.* iii. 114. pl. 22. fig. 3.

*a.* Presented by G. Johnston, M.D.
*b, c.* On shell. Presented by G. Johnston, M.D.

*d.* "Lep. nitida, var." Kirkwall Bay. Presented by G. Johnston, M.D.
*e.* On Modiola, "Lep. hyalina and Tubipora serpens." Presented by G. Johnston, M.D.

17. LEPRALIA innominata.

Lepralia innominata, *Couch, Corn. Faun.* iii. 114. pl. 22. fig. 4; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 320. t. 55. fig. 12.
Lep. pectinata, *Peach, MS.*
*a.* "L. pectinata." Goran, Sept. 1843. Presented by G. Johnston, M.D.
*b.* With L. catenata? and L. coccinea? Presented by G. Johnston, M.D.
*c, d, e.* "L. pectinata!" Sana Island. Presented by G. Johnston, M.D.

18. LEPRALIA semilunaris.

Lepralia semilunaris, *Hassall, Ann. & Mag. Nat. Hist.* ix. 411; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 320. t. 56. fig. 4.
Lep. pustulata?, *Couch, Corn. Faun.* iii. 113. pl. 22. fig. 2.
Inhab. Dublin, *Hassall.*

19. LEPRALIA ciliata.

Eschara ciliata var. *β*, *Pall. Elench.* 38.
Cellepora ciliata *Linn. Syst.* 1286; *Fabr. Faun. Grœnl.* 434. no. 441.
Berenicea utriculata, *Flem. Brit. Anim.* 533.
Lepralia ciliata, *Johnst. Brit. Zooph.* 279. pl. 34. fig. 6; *Couch, Corn. Faun.* iii. 118. pl. 22. fig. 10; *W. Thompson, Ann. Nat. Hist.* v. 253; *J. Macgillivray, Ann. & Mag. Nat. Hist.* ix. 467; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 323. pl. 57. figs. 4, 5.
*a.* On Floridia, with Lepralia hyalina and Crisia eburnea. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.
*b, c.* On Floridia. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.
*d.* On Ulva. Presented by G. Johnston, M.D.
*e.* On Floridia. Ayrshire, Rev. D. Landsborough. Presented by G. Johnston, M.D.
*f.* Presented by G. Johnston, M.D.
*g, h.* On shells. Kirkwall Bay. Presented by G. Johnston, M.D.
*i, j.* On shells. Presented by G. Johnston, M.D.

20. LEPRALIA spinifera.

Lepralia ciliata, *Hassall, Ann. & Mag. Nat. Hist.* vi. 171, and vii. 367. pl. 9. fig. 2.

Lepralia spinifera, *Johnst. Hist. B. Z.* ed. 2. p. 324. t. 57. fig. 6.

*a.* On rock. Presented by G. Johnston, M.D.

21. LEPRALIA trispinosa.

Discopora trispinosa, *Johnst. Edinb. Phil. Journ.* xiii. 322.

Berenicea trispinosa, *Johnst. Trans. Newc. Soc.* ii. 268.

Lepralia trispinosa, *Johnst. Brit. Zooph.* 280. pl. 34. fig. 5; *Couch, Corn. Faun.* iii. 118; *J. Macgillivray, Ann. & Mag. Nat. Hist.* ix. 467; *Johnst. Hist. B. Z.* ed. 2. p. 324. t. 57. fig. 7.

*a.* C. W. Peach, Esq. Presented by G. Johnston, M.D.

*b.* Berwick Bay. Presented by G. Johnston, M.D.

*c.* On a Cardium. Presented by G. Johnston, M.D.

*d.* ? "L. trispinosa?" Presented by G. Johnston, M.D.

22. LEPRALIA annulata.

Cellepora annulata, *Fabr. Faun. Grœnl.* 436. no. 444; *Turt. Gmel.* iv. 641.

Lepralia annulata, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 313. t. 55. figs. 2, 3.

Cellepora (Escharoide) bimucronata, *Lamx. Corall.* 41; *Lamk. Anim. s. Vert.* ed. 2. ii. 260.

Eschara bimucronata, *Moll. Eschara*, 65. t. 3. fig. 18.

*a, b, c, d, e, f.* On Fuci. Presented by G. Johnston, M.D.

*g, h.* On Fuci with "L. ciliata β. insignis." Presented by G. Johnston, M.D.

*i, j, k, l.* On shell. Sana Island. Presented by G. Johnston, M.D.

*m, n.* With Lep. ciliata? and L. ovalis? Presented by G. Johnston, M.D.

*o, p.* With L. tenuis. Presented by G. Johnston, M.D.

*q.* On Fuci with Lep. hyalina. Presented by G. Johnston, M.D.

## 6. HERENTIA.

Herentia, *Gray, Appendix*; *Proc. Zool. Soc.* 1848.

* *Ovarian? tube lateral, crust irregular.*

1. HERENTIA Hyndmanni.

Lepralia Hyndmanni, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 306. t. 54. fig. 6.

*a*. With Lep. appensa, Hass. Presented by G. Johnston, M.D.

*b*, *c*, *d*. Sana Island. Presented by G. Johnston, M.D.

2. HERENTIA insignis.

Lepralia insignis, *Hassall, Ann. & Mag. Nat. Hist.* vii. 368. t. 9. fig. 5; *Couch, Corn. Faun.* t. 22. fig. 11; *J. Macgillivray, Ann. & Mag. Nat. Hist.* ix. 467.

Lepralia ciliata var. β, *Johnst. Brit. Zooph.* ed. 2. 323.

Flustra Dutertrei, *Aud. Expl. from Savig. Egypt. Rept.* t. 9. fig. 2?

Escharina vulgaris part., *M.-Edw. Lamk. Hist.* ed. 2. 231?

*a*. (L. insignis!), Fowey, 1846. Presented by G. Johnston, M.D.

*b*, *c*, *d*. (L. ciliata var. insignis.) Presented by G. Johnston, M.D.

*e*. With Lep. annulata on Fuci. Presented by G. Johnston, M.D.

** *Ovarian? tube lateral, crust circular.*

3. HERENTIA linearis.

Lepralia linearis, *Hassall, Ann. & Mag. Nat. Hist.* vii. 368. pl. 9. fig. 8; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 308. t. 54. fig. 11.

*a*, *b*. On shell. Presented by G. Johnston, M.D.

*** *Ovarian? tube anterior, central.*

4. HERENTIA biforis.

Cellepora Macry, *W. Thompson, Ann. & Mag. Nat. Hist.* x. 20; not *Chiaje?* nor *M.-Edwards.*

Lepralia biforis, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 314.

*a*. On inside of Pectunculus with Flustra foliacea. Presented by G. Johnston, M.D.

*b*, *c*. On shells. Presented by G. Johnston, M.D.

*d*, *e*, *f*, *g*. On shell and rock. Presented by G. Johnston, M.D.

*h*. With "Lep. auriculata"? Presented by G. Johnston, M.D.

## 7. ESCHARINA.

Escharina, *M.-Edw. Lamk. Hist.* ed. 2. 231, 1836 (type *E. vulgaris*); *Gray, Proc. Zool. Soc.* 1848.

Escharoide, sp. *M.-Edw. Lamk. Hist.* ed. 2. 259.

Lepralia, sp. *Johnst. Brit. Zooph.* ed. 2. 278.

Berenicea, sp. *Johnst.*

* *Mouth unarmed.* ESCHARINA.

1. ESCHARINA Ballii.

Lepralia Ballii, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 321. t. 56. fig. 5.

*a, b, c.* On Lima and Pecten. Sana Island. Presented by G. Johnston, M.D.

*d.* On Venus with Lep. biforis. Presented by G. Johnston, M.D.

*e, f.* On Lima. Sana Island. Presented by G. Johnston, M.D.

2. ESCHARINA ansata.

Lepralia ansata, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 307. t. 54. fig. 12.

*a.* "L. ansata!" with Flustra lineata and L. punctata! Cornwall, W. Peach, Esq. Presented by G. Johnston, M.D.

3. ESCHARINA unicornis.

Berenicea coccinea, *Johnst. Trans. Newc. Soc.* ii. 267. pl. 12. fig. 5.

Lepralia coccinea, *Johnst. Brit. Zooph.* 278. pl. 34. figs. 1–3; *Hassall, Ann. & Mag. Nat. Hist.* vii. 367; *Couch, Corn. Faun.* iii. 115; *W. Thompson, Ann. Nat. Hist.* v. 253.

Lepralia unicornis, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 321. t. 57. fig. 1.

*a, b, c, d, e, f, g, h.* On stone. Presented by G. Johnston, M.D.

*i.* On slate. Presented by G. Johnston, M.D.

** *Mouth spinose.* ESCHAROIDES.

4. ESCHARINA coccinea.

Cellepora coccinea, *Abildgaard, Müll. Zool. Dan.* iv. 30. t. 146, figs. 1, 2.

Cellepora (Escharoide) coccinea, *Lamk. Anim. s. Vert.* ed. 2. ii. 259.

Berenicea coccinea, *Flem. Brit. Anim.* 533.

Lepralia coccinea, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 322. t. 57. figs. 2, 3.

Lepralia tridentata, *Couch, Corn. Faun.* 115. pl. 22. fig. 5.

Var. $\beta$. with a triangular slit or loop on each side of the aperture.

Lepralia appensa, *Hassall, Ann. & Mag. Nat. Hist.* vii. 367. pl. 9. fig. 3.

*a.* Var. on Floridea. Presented by G. Johnston, M.D.

*b.* On Nullipora. Presented by G. Johnston, M.D.

*c.* With Flustra? lineata, Lepralia immersa, and L. coccinea. Presented by G. Johnston, M.D.

*d.* "Lep. appensa, *Hass.*! with Lep. coccinea." Cornwall. Presented by G. Johnston, M.D.
*e, f.* "Lep. coccinea, *Müll.*" Presented by G. Johnston, M.D.
*g.* "Lep. coccinea var. *β.*" Presented by G. Johnston, M.D.
*h, i.* "Lep. coccinea, *Müller*!" Presented by G. Johnston, M.D.
*j.* "Lep. coccinea, L. appensa." Presented by G. Johnston, M.D.

### 8. Escharella.

Escharella, *Gray, Appendix; Proc. Zool. Soc.* 1848.
Lepralia, sp. *Johnst. Brit. Zooph.* ed. 1. 280, ed. 2. 325.
Berenicea, sp. *Flem. Brit. Anim.* 533, 1828; *Johnst.*

1. Escharella immersa.

Berenicea immersa, *Flem. Brit. Anim.* 533.
Berenicea flava, *Johnst. Trans. Newc. Soc.* ii. 268.
Lepralia immersa, *Johnst. Brit. Zooph.* 280. pl. 34. fig. 8; *W. Thompson, Ann. Nat. Hist.* v. 253; *Couch, Corn. Faun.* iii. 118; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 325. t. 57. fig. 8.
*a.* "Berenicea flava, *Johnst.*" Berwick Bay. Presented by G. Johnston, M.D.
*b.* "L. immersa." Presented by G. Johnston, M.D.
*c.* Presented by G. Johnston, M.D.
*d.* Goran. Presented by G. Johnston, M.D.
*e, f.* Presented by G. Johnston, M.D.
*g.* On shell. Presented by G. Johnston, M.D.

2. Escharella violacea.

Lepralia violacea, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 325. t. 57. fig. 9.
*a.* On stone. Presented by G. Johnston, M.D.
*b.* On stone. Isle of Man. Presented by G. Johnston, M.D.

3. Escharella variolosa.

Lepralia variolosa, *Johnst. Brit. Zooph.* 278. pl. 34. fig. 4; *Hassall, Ann. & Mag. Nat. Hist.* vii. 367; *Couch, Zooph. Cornw.* 50; *Corn. Faun.* iii. 116. pl. 22. fig. 6; *W. Thompson, Ann. Nat. Hist.* v. 253; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 317. t. 55. figs. 8, 9.
Var. *a.* Lip situated on the proximal margin, *Johnst. Brit. Zooph.* ed. 2. 317. t. 55. fig. 8.
Var. *β.* Lip with a denticle on the proximal margin, *Johnst. Brit. Zooph.* ed. 2. 317. t. 55. fig. 9.

*a.* On Pholas, with L. tenuis and L. ——? Presented by G. Johnston, M.D.
*b, c, d.* On shell. Berwick Bay. Presented by G. Johnston, M.D.
*e.* On rock, with Lep. nitida, L. catenata, L. flava. Presented by G. Johnston, M.D.
*f.* On stone. Presented by G. Johnston, M.D.
*g.* (*h.*?) On shells. Presented by G. Johnston, M.D.

### 9. Discopora.

Discopora, *Lamk. Hist.* ii. 164, ed. 2. ii. 248 (type *D. verrucosa*); *Lamx. Expos. Méthod.* 42 (type *D. verrucosa*); *Blainv. Man. Act.* 446; not *Fleming* nor *Johnston.*
Lepralia, sp. *Johnst. Brit. Zooph.* ed. 2. 316.

1. Discopora verrucosa.

Cellepora verrucosa, *Esper, Cellep.* t. 2. figs. 1, 2; not Discopora verrucosa, *Lamk. Hist.* ii. 164, ed. 2. ii. 248.
? Lepralia Johnstoni, *Bean, MSS.*
Lepralia verrucosa, *W. Thompson, Ann. Nat. Hist.* xiii. 441; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 316. t. 56. fig. 3.
Lepralia reticulata, *Couch, Corn. Faun.* iii. 117. pl. 22. fig. 9.
*a.* On an old shell with Hippothoa lanceolata. Presented by G. Johnston, M.D.
*b.* On wood. Presented by G. Johnston, M.D.

2. Discopora bispinosa.

Lepralia bispinosa, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 326. t. 57. fig. 10.
*a.* Presented by G. Johnston, M.D.

### 10. Eschara.

Eschara, *Ray*; *Fleming, Brit. Anim.* 531; *Johnst. Brit. Zooph.* ed. 1. 297, ed. 2. 350; *Lamk. Syst.* 375, *Hist.* ii. 173, ed. 2. 265.
Eschara, sp. *Pallas, Zooph.* 40.
Nullipora, sp. *Solander.*
Cellepora, sp. *Esper.*

1. Eschara foliacea.

Eschara retiformis, *Raii Syn.* 1. 31; *Flem. Brit. Anim.* 531.
Stony foliaceous Coralline, *Ellis, Corall.* 71. no. 3. pl. 30. fig. *a*, A, B, *c*; *Borl. Cornw.* 239. pl. 24. fig. 6.
Eschara fascialis, *Pall. Elench.* 44.
Millepora foliacea, *Ellis and Soland. Zooph.* 133.
Cellepora lamellosa, *Esper, Cellep.* p. 146. t. 6. figs. 1–5.

Eschara foliacea, *Lamk. Anim. s. Vert.* ii. 174, ed. 2. ii. 266; *Blainv. Actinol.* 428. pl. 75. fig. 3; *Milne-Edwards, Ann. des Sc. Nat.* vi. 36. pl. 3. fig. 1; *Couch, Zooph. Cornw.* 60; *Corn. Faun.* iii. 131; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 351. t. 67.
*a, b.* Coast of Sussex. Presented by G. Mantell, LL.D.

2. ESCHARA fascialis.

Italian Coral, *Ellis, Corall.* 72. pl. 30. fig. *b.*
Eschara fascialis var. *a, Pall. Elench.* 42; *Lamk. Anim. s. Vert.* ii. 175, ed. 2. ii. 267; *Flem. Brit. Anim.* 531; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 352.
Millepora tænialis, *Ellis and Soland. Zooph.* 133.
M. fascialis, *Berk. Syn.* i. 211; *Turt. Brit. Faun.* 204.
Cellepora ligulata, *Esper, Cellep.* 146. t. 8. figs. 1, 2.
L'Eschare à bandelettes, *Blainv. Act.* 428; *M.-Edw. Ann. des Sc. Nat. Part. Zool.* vi. 43. pl. 4. fig. 1.
*a, b.* Dr. Leach's Collection.

3. ESCHARA cribraria.

Eschara cribraria, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 352. t. 60. figs. 7–9.
*a.* Berwick Bay, 1844. Presented by G. Johnston, M.D.

## 11. PORELLA.

Porella, *Gray, Appendix, Proc. Zool. Soc.* 1848.
Porus, *Borlase.*
Eschara, sp. *Pallas, Zooph.*; *Lamk. Syst.* 375; *Hist.* ii. 174; *Lamx.*
Cellepora, sp. *Johnston.*

1. PORELLA cervicornis.

Porus cervinus, *Borl. Cornw.* 240. t. 24. fig. 7.
Millepora cervicornis, *Soland.* 134; *Stew. Elem.* ii. 427; *Turt. Brit. Faun.* 204.
M. compressa, *Sowerby, Brit. Misc.* 83. pl. 41; *Turt. Brit. Faun.* 204; *Jameson, Wern. Mem.* i. 560.
Cellepora cervicornis, *Flem. Brit. Anim.* 532; *Thompson, Ann. Nat. Hist.* v. 253; *Couch, Zooph. Cornw.* 49; *Corn. Faun.* iii. 111. pl. 20. fig. 1; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 299. t. 53.
Millepora alcicornis, *Esper, Millep.* t. 5, 6, 7.
Eschara cervicornis, *Oken, Lehrb. Nat.* 86?; *Lamk. Hist.* ii. 174. ed. 2. ii. 267.
*a.* Cork. Presented by Miss Elliot.
*b, c.* Shetland. Presented by P. Neil, Esq.
*d.* ——?

### 12. Celleporina.

Celleporina, *Gray, Appendix, Proc. Zool. Soc.* 1848.
Lepralia, sp. *Johnst. Brit. Zooph.* ed. 2. 304.
Cellepora, sp. *Hassall.*

1. Celleporina Hassallii.

Cellepora bimucronata, *Hassall, Ann. & Mag. Nat. Hist.* vii. 367. pl. 9. fig. 1; not *Lamx.*
Lepralia Hassallii, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 304 t. 54. fig. 3. 477.
*a.* On a Patella. Presented by G. Johnston, M.D.

### 13. Celleporella.

Celleporella, *Gray, Appendix*; Proc. Zool. Soc. 1848.
Cellepora, sp. *Linn.*; *Lamx. Coral.* 383.
Berenicea, sp. *Hassall*; not *Lamx.*
Lepralia, sp. *Johnst. Brit. Zooph.*

1. Celleporella hyalina.

Cellepora hyalina, *Linn. Syst.* 1286; *Fabric. Faun. Grœnl.* 435. no. 442; *Esper, Cellep.* t. 1. figs. 1, 2; *Lamx. Corall.* 38; *Bosc, Vers,* iii. 148; *Oken, Lehrb. Nat.* 86; not *Cavolini* nor *Chiaje.*
Berenicea hyalina, *Hassall, Ann. & Mag. Nat. Hist.* vii. 367.
Cellepora personata, *Chiaje, Mem.* iii. 39. t. 34. figs. 17, 18, ovarian cell.
Lepralia hyalina, *W. Thompson, Ann. Nat. Hist.* v. 253; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 301. t. 54. fig. 1.
Var. *β.* Wall of the cells thicker, calcareous and opake.
Lepralia cylindrica, *Hassall, Ann. & Mag. Nat. Hist.* vii. 368. pl. 9. fig. 6.
Var. *γ.* Cells heaped, usually opake and calcareous.
Cellepora ovoidea, *Lamx. Corall.* 38. pl. 1. fig. 1; *Blainv. Act.* 444; *Lamk. Anim. s. Vert.* ed. 2. ii. 259; *Lamx. Exp. Méth.* 2. t. 64. figs. 4, 5; *D. Chiaje, Anim. s. Vert. Nap.* iii. 38. t. 34. fig. 33.
*a.* On Fuci. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.
*b, c, d.* On Fuci. Presented by G. Johnston, M.D.
*e.* With ovarian capsules on Fuci. Presented by G. Johnston, M.D.
*f.* On Floridea. Presented by G. Johnston, M.D.
*g.* On Floridea, "Tubulipora hyalina, *Couch.*" Cornwall, C. W. Peach, Esq. Presented by G. Johnston, M.D.
*h.* On Floridea. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.

*i.* On Floridea. Bangor, co. Down, W. Thompson, Esq. Presented by G. Johnston, M.D.
*j.* On Floridea. Ireland, with Lepralia ciliata and Crisia eburnea. Presented by G. Johnston, M.D.
*k, l.* On Fuci. Presented by G. Johnston, M.D.
*m, n.* Fowey Harbour, 1845. Presented by G. Johnston, M.D.
*o.* On Algæ. Presented by G. Johnston, M.D.
*p.* ——? Presented by G. Johnston, M.D.

### 14. Cellepora.

Cellepora, sp. *O. Fab.*; *Johnst. Brit. Zooph.* ed. 2. 295.
Spongites, *Oken, Lehrb. Nat.* 85, 1815.

1. Cellepora pumicosa.

Porous Eschara, *Ellis, Corall.* 75. no. 7. pl. 27. fig. *f*, F. & 72. pl. 30. fig. *d*, D.
Tubipora verrucosa, *Linn. Syst.* ed. 10, 789.
Cellepora pumicosa, *Linn. Syst.* 1286; *Müll. Zool. Dan. Prod.* 253; *Berk. Syn.* 1. 212; *Stew. Elem.* ii. 428. pl. 12. figs. 16. 17, copied from *Ellis*; *Lamk. Anim. s. Vert.* ii. 170, ed. 2. ii. 256; *Lamx. Corall.* 40; *Flem. Brit. Anim.* 532; *Johnst. Trans. Newc. Soc.* ii. 267; *Templeton, Mag. Nat. Hist.* ix. 469; *Couch, Zooph. Cornw.* 48; *Corn. Faun.* iii. 110. pl. 20. figs. 4, 5; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 295. t. 52. figs. 1, 2, 3.
C. verrucosa, *Linn. Syst.* 1286; *Fabric. Faun. Græn.* 434; *Oliv. Zool. Adriat.* 229.
C. spinosa, *Turt. Brit. Faun.* 205.
Millepora pumicosa, *Pall. Elench.* 254; *Ellis and Soland. Zooph.* 135; *Jameson, Wern. Mem.* i. 560; *Stew. Elem.* ii. 428.
Flustra bullata?, *Ellis and Soland. Zooph.* 16; *Stew. Elem.* ii. 436.
Madrepora verrucaria, *Esper, Madrep.* t. 17. figs. c, C, & *b*, B. is young.
*a.* On Tubularia. Presented by G. Johnston, M.D.
*b, c.* On Natica. Presented by G. Johnston, M.D.
*d.* Shetland. Presented by Dr. P. Neill.

2. Cellepora ramulosa.

Cellepora ramulosa, *Linn. Syst.* 1285; *Müll. Zool. Dan. Prod.* 253; *Flem. Brit. Anim.* 532; *Johnst. Trans. Newc. Soc.* ii. 267. pl. 12. figs. 3, 4; *Lamk. Anim. s. Vert.* ed. 2. ii. 258; *Thompson, Ann. & Mag. Nat. Hist.* vii. 481; *Hassall, ibid.* vii. 367; *Couch, Zooph. Cornw.* 49; *Corn. Faun.* iii. 110. pl. 20. fig. 2; *Macgilliv. Ann. & Mag. Nat. Hist.* ix. 467; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 296. t. 52. figs. 4, 5.

Cellepora pumicosa var., *Pallas, Elench.* 255; *Ellis and Soland. Zooph.* 136.
Cellepora lævis, *Macgilliv. Ann. & Mag. Nat. Hist.* ix. 467.
*a, b.* Berwick Bay. Presented by G. Johnston, M.D.

3. CELLEPORA Skenei.

Millepora Skenei, *Ellis and Soland. Zooph.* 135; *Turt. Brit. Faun.* 204; *Stew. Elem.* ii. 427.
Cellepora palmata, *Flem. Brit. Anim.* 532.
C. Skenei, *Johnst. Trans. Newc. Soc.* ii. 267; *Couch, Zooph. Cornw.* 49; *Corn. Faun.* iii. 111; *W. Thompson, Ann. & Mag. Nat. Hist.* xv. 322; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 297. t. 52. figs. 6, 7, 8.
Inhab.

4. CELLEPORA lævis.

Cellepora lævis, *Flem. Brit. Anim.* 532; *Couch, Zooph. Cornw.* 50; *Corn. Faun.* iii. 112; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 299.
Eschara lævis, *Blainv. Act.* 428.
C. ramulosa var., *Johnst. Brit. Zooph.* 300.
Inhab.

5. CELLEPORA vitrina.

Cellepora vitrina, *Couch, Corn. Faun.* iii. 109. pl. 22. fig. 1.

## 3. RETEPORANA.

### 15. RETEPORA.

Retepora, *Lamk.*; *Johnst. Brit. Zooph.* ed. 2. 353.
Frondipora, *Oken, Lehrb. Nat.* 63, 1815; *Blainv.* 1830.

1. RETEPORA reticulata.

Millepora Retepora, *Borl. Cornw.* 240. pl. 24. fig. 8.
Millepora reticulata, *Linn. Syst.* 1284; *Fabric. Faun. Grœnl.* 433; *Ellis and Soland. Zooph.* 138; *Esper, Pflanz.* t. 2. figs. 1–5; *Oliv. Zool. Adriat.* 223.
M. Frondipora, *Pall. Elench.* 241.
Retepora reticulata, *Lamk. Anim. s. Vert.* ii. 182, ed. 2. ii. 275; *Risso, L'Europ. Mérid.* v. 343; *Flem. Brit. Anim.* 531; *Stark, Elem.* ii. 435; *Blainv. Act.* 633; *Couch, Corn. Faun.* iii. 130; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 353.
Frondipora reticulata, *Blainv. ibid.* 406. pl. 69. fig. 1.
Frondipora clathrata, *Oken, Lehrb. Nat.* 64.

Millepora cellulosa, *Jameson, Wern. Mem.* i. 560; *Turt. Brit. Faun.* 205; *Stew. Elem.* ii. 427.
Millepora foraminosa, *Ellis and Soland. Zooph.* 138. pl. 26. fig. 2.
Retepora cellulosa, *Johnst. Loud. Mag. Nat. Hist.* vii. 638. fig. 69; *S. V. Wood, Ann. & Mag. Nat. Hist.* xiii. 16; *W. Thompson, ibid.* xv. 322.
Retepora Beaniana, *King, Ann. & Mag. Nat. Hist.* xviii. 237; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 353. fig. 67.
Frondipora cellulosa, *Oken, Lehrb. Nat.* 63.
*a, b.* Northumberland, from Mr. Howie's collection.

## 4. Salicornarana.

### 16. Salicornaria.

Salicornaria, *Cuv. R. A.* 1837; *Johnst. Brit. Zooph.* ed. 2. 355.
Farcimia, *Flem. Brit. Anim.* 534; *Johnst. Brit. Zooph.* ed. 1.
Cellaria *a, Lamk. Syn.* 1801, 1812; *Lamx.* 1812; *Blainv.* 1830.

1. Salicornaria farciminoides.

Salicornaria farciminoides, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 355. t. 66. figs. 6, 7.
Corallina fistulosa fragilis, *Raii Hist.* i. 65.
Corallina fistulosa fragilis, internodiis prælongis lævibus, albis, farciminum modo catenatis, *Pluken. Phytog.* pl. 26. fig. 2.
Bugle Coralline, *Ellis, Corall.* 46. no. 1. pl. 23. figs. *a*, A, B, C.
Eschara fistulosa, *Linn. Syst.* ed. 10. 804.
Cellularia Salicornia, *Pall. Elench.* 61.
Tubularia fistulosa, *Linn. Syst.* 1302; *Oliv. Zool. Adriat.* 267; *Berk. Syn.* i. 214.
Cellaria farciminoides, *Ellis and Soland. Zooph.* 26.
Isis Hippuris, *Fabr. Faun. Grœnl.* 427.
Cellaria Salicornia, *Lamk. Anim. s. Vert.* ii. 135, ed. 2. ii. 176; *Bosc, Vers,* iii. 129. pl. 28. fig. 6; *Lamx. Expos. Méthod.* 5; *Corall.* 55; *Bull. Soc. Phil.* iii. 185; *Blainv. Act.* 455. pl. 77. fig. 1.
Salicorniaires, *Cuv. Règ. Anim.* iii. 303.
Salicornaria dichotoma, *Schweig. Handb.* 428.
Salicornaria fistulosa, *Templeton, Mag. Nat. Hist.* ix. 469.
Farcimia fistulosa, *Flem. Brit. Anim.* 534; *Johnst. Trans. Newc. Soc.* ii. 266.
Cellaria fistulosa, *S. V. Wood, Ann. & Mag. Nat. Hist.* xiii. 17.
Farcimia Salicornia, *Johnst. Brit. Zooph.* 295. pl. 37. figs. 6, 7; *Couch, Zooph. Cornw.* 58; *Corn. Faun.* 129. pl. 20. fig. 3.
*a.* England. Presented by G. Johnston, M.D.

*b*. Zetland, "E. Forbes, Esq." Presented by G. Johnston, M.D.
*c*. Presented by G. Johnston, M.D.
*d*. Ayrshire. Presented by G. Johnston, M.D.
*e*. In spirits. Presented by G. Johnston, M.D.

2. SALICORNARIA sinuosa.

Tubularia fistulosa, *Esper. Tubul.* t. 2. figs. 1–4.
Farcimia sinuosa, *Hassall, Ann. & Mag. Nat. Hist.* vi. 172. pl. 6. figs. 1, 2; *Macgilliv. ibid.* ix. 468.
Farcimia spathulosa, *Hassall, ibid.* xi. 112.
Salicornaria sinuosa, *Johnst. Brit. Zooph.* ed. 2. p. 356. t. 66. fig. 8.
*a*. Fragment. Coast of England. Presented by G. Johnston, M.D.
*b*. Fragment. Coast of England? Presented by G. Johnston, M.D.

## Fam. 8. SCUPARIADÆ.

Eucratiadæ, *Johnst. Brit. Zooph.* ed. 2. 288.
Crisiadæ part., *Gray, Syn. Brit. Mus.* 1842, 135.

### 1. SCUPARIA.

Scuparia *a*, *Oken, Lehrb. Nat.* 90, 1815.
Eucratea, *Johnst. Brit. Zooph.* ed. 2. 289.
Eucratea, sp. *Lamx. Bull. Soc. Phil.* iii. (1812); *Flem.* 1828.
Unicellaria, sp. *Blainv. Dict. Sci. Nat.* lx. (1830).

1. SCUPARIA chelata.

Bull's-horn Coralline, *Ellis, Corall.* 42. no. 9. pl. 22. fig. *b*, B.
Sertularia chelata, *Linn. Syst.* ed. 10. 816.
Cellularia chelata, *Pall. Elench.* 77.
Sertularia loricata, *Linn. Syst.* 1316; *Berk. Syn.* i. 220; *Esper, Pflanz. Sert.* t. 29. figs. 1, 2; *Turt. Gmel.* iv. 686; *Turt. Brit. Faun.* 217; *Stew. Elem.* ii. 449.
Cellaria chelata, *Ellis and Soland. Zooph.* 25; *Bosc, Vers*, iii. 134; *Lamk. Anim. s. Vert.* ii. 140, ed. 2. ii. 189.
Eucratea chelata, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Corall.* 64. pl. 3. fig. 5; *Expos. Méthod.* 8. pl. 65. fig. 10; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 289.
Scuparia chelata, *Oken, Lehrb. Nat.* 90.
Eucratea loricata, *Flem. Brit. Anim.* 541.
Eucratée cornée, *M.-Edw. Ann. d. Sc. Nat. n. s.* ix. 204. pl. 8. fig. 1.
Unicellaria chelata, *Blainv. Act.* 461. pl. 77. fig. 2.
Crisia chelata, *Johnst. Brit. Zooph.* 261; *Reid, Ann. & Mag. Nat. Hist.* xvi. 392; *Couch, Corn. Faun.* iii. 98. pl. 18. fig. 1.

*a*. Dry, on paper. Bangor, co. Down, W. Thompson, Esq. Presented by G. Johnston, M.D.
*b, c*. Dry, on Fuci. Coast of England. Presented by G. Johnston, M.D.
*d*. Dry, on Fuci, with Sertularia pumila and S. polyzonias. Presented by G. Johnston, M.D.
*e*. Dry, on a crab. Presented by G. Johnston; M.D.
*f*. In spirits, with Pedicellaria echinata. Presented by G. Johnston, M.D.

### 2. Æтea.

Æтea, *Lamx.* 1812 (*Bull. Soc. Phil.*), char.
Anguinaria, *Lamk.* 1812(no char.); *Johnst. Br. Zooph.* ed. 2. 292.
Falcaria β, *Oken, Lehrb. Nat.* 91, 1815.

1. Æтea Anguina.

Snake Coralline, *Ellis, Corall.* 43. no. 11: pl. 22. fig. *c*, C, D.
Sertularia Anguina, *Linn. Syst.* ed. 10. 816; *Linn. Syst.* 1317; *Turt. Gmel.* iv. 686; *Berk. Syn.* i. 220; *Turt. Brit. Faun.* 217; *Stew. Elem.* ii. 449; *Esper, Pflanz. Sert.* t. 16. figs. 1, 2; *Oliv. Zool. Adriat.* 291.
Cellularia Anguina, *Pall. Elench.* 78; *Ellis, Phil. Trans.* lvii. 437. pl. 19. fig. 10; *Hogg's Stock.* 35.
Cellaria Anguina, *Ellis and Soland. Zooph.* 26; *Bosc, Vers.* iii. 135.
Æтea Anguina, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Corall.* 65. pl. 3. fig. 6; *Expos. Méthod.* 9. t. 65. fig. 15.
Falcaria Anguina, *Oken, Lehrb. Nat.* 91.
Sertularia mollis, *D. Chiaje, Anim. s. Vert. Nap.* iv. 147.
Anguinaria Anguina, *Flem. Brit. Anim.* 542; *Lister, Phil. Trans.* 1834, 385. pl. 12. fig. 4; *Blainv. Act.* 467. pl. 79. fig. 3.
Anguinaria spatulata, *Lamk. Anim. s. Vert.* ii. 143, ed. 2. ii. 196; *Stark. Elem.* ii. 439; *Thompson, Ann. Nat. Hist.* v. 252; *Couch, Zooph. Cornw.* 44; *Corn. Faun.* iii. 103. pl. 19. fig. 2; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 290. t. 50. figs. 7, 8.
*a*. Dry, on Fucidæ. Youghal, Miss Ball. Presented by G. Johnston, M.D.
*b, c*. Dry, on Fucidæ, Bristol. Presented by G. Johnston, M.D.

### 3. Gemellaria.

Gemellaria, *Savigny*, 1805?; *Van Beneden*; *Johnst. B. Z.* 293.
Gemicellaria, *Blainv.* 1830.
Loricaria, *Lamx. Expos.* 7 (1821), not *Lacép.*
Notamia, *Flem. Brit. Anim.* 1828.
Loricula, *Cuvier*, 1836.
Crisia, sp. *Lamx.* 1816; *Lamk.* 1816.
Scuparia β, *Oken, Lehrb. Nat.* 90, 1815.

1. GEMELLARIA loriculata.

Muscus coralloides, *Doody, Raii Syn.* i. 34. no. 6.
Coat-of-mail Coralline, *Ellis, Corall.* 40. no. 7. pl. 21. fig. *b*, B.
Sertularia loricata, *Linn. Syst.* ed. 10. 815.
Cellularia loriculata, *Pall. Elench.* 64; *Hogg's Stock.* 35.
Sertularia loriculata, *Linn. Syst.* 1314; *Turt. Gmel.* iv. 684; *Berk. Syn.* 1. 219; *Esper, Pflanz. Sert.* t. 24. figs. 1–3; *Turt. Brit. Faun.* 216; *Jameson, Wern. Mem.* i. 564; *Stew. Elem.* ii. 447.
Cellaria loriculata, *Ellis and Soland. Zooph.* 24; *Bosc, Vers,* iii. 133; *Lamk. Anim. s. Vert.* ii. 136, ed. 2. ii. 179; *Johnst. Trans. Newc. Soc.* ii. 262.
Scuparia loricata, *Oken, Lehrb. Nat.* 90.
Crisia loriculata, *Lamx. Corall. Flex.* 140.
Loricaria europæa, *Lamx. Expos. Méthod.* 7.
Notamia loriculata, *Flem. Brit. Anim.* 541; *Farre, Phil. Trans.* 1837, 413. pl. 27. figs. 6–9; *Hassall, Ann. & Mag. Nat. Hist.* vi. 170; *Couch, Zooph. Cornw.* 42; *Corn. Faun.* iii. 101. pl. 18. fig. 4.
Loricula loricata, *Cuvier, Règ. Anim.* ed. 2. iii. 303; *Templeton, Mag. Nat. Hist.* ix. 469.
Gemicellaria loriculata, *Blainv. Dict. Sci. Nat.* lx. 425; *Actinol.* 461. pl. 78. fig. 4.
Gemellaria loriculata, *Savig. Egypt. Polyp.*; *Van Beneden, Recherch.* 33. pl. 5. fig. 1; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 293. t. 47. figs. 12, 13. 477.

*a*. Dry, on paper. Northumberland. Presented by G. Johnston, M.D.
*b, c, d, e*. Dry, on paper. Berwick Bay. Presented by G. Johnston, M.D.
*f*. Frith of Forth. Presented by G. Johnston, M.D.
*g, h*. Dry, on paper. Cork, J. V. Thompson, Esq. Presented by G. Johnston, M.D.
*i, l*. River Tay. Presented by Capt. Ducane, R.A.
*k*. ————? Presented by G. Johnston, M.D.

## Suborder II. TUBULIPORINA.

Tubuliporina, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 264.
Les Tubuliporiens, *Milne-Edwards, Mém. sur les Crisies,* p. 14.
Tubuliporidæ, *Johnst. Trans. Berw. Nat. Club,* 107.
? Auliporina, *Ehrenberg, Corall. des Roth. Meer.* 153.

## Fam. 9. CRISIADÆ.

Les Crisies, *Milne-Edwards, Mém.* 1–13; *Savig. Egypt. Polyp.* t. 6. fig. 56, ovarian cells.
Crisiadæ, *Johnst. Brit. Zooph.* ed. 2. 282.
Crisiadæ (pars), *Gray, Syn. Brit. Mus.* 1842, 135.

### 1. CRISIA.

Crisia, *Fleming*, 1828; *Blainv.* 1830.
Crisia, sp. *Lamx.* 1812; *Johnst. Brit. Zooph.* 283.
Cellaria, sp. *Solander.*
Cellularia, sp. *Pallas.*
Falcaria, sp. *Oken, Lehrb. Nat.* 91, 1815.
Tibiana, sp. *Lister, Phil. Trans.* 1834.

1. CRISIA eburnea.

Tufted ivory Coralline, *Ellis, Corall.* 39. no. 6. pl. 21. fig. *a*, A.
Sertularia eburnea, *Linn. Syst.* ed. 10. 810; *Linn. Syst.* 1316; *Esper, Pflanz. Sert.* t. 18. figs. 1–3; *Berk. Syn.* i. 220; *Turt. Gmel.* iv. 686; *Jameson, Wern. Mem.* i. 565; *Turt. Brit. Faun.* 217; *Stew. Elem.* ii. 449; ? *Savig. Egypt. Polyp.* t. 6. fig. 6.
Cellularia eburnea, *Pall. Elench.* 75; *Hogg's Stock.* 35.
La Sertolara d'avorio?, *Cavol. Pol. Mar.* 240. t. 9. figs. 5, 6.
Cellaria eburnea, *Ellis and Soland. Zooph.* 24; *Bosc, Vers*, iii. 133; *Lamk. Anim. s. Vert.* ii. 138, ed. 2. ii. 184; *Johnst. Trans. Newc. Soc.* ii. 262. pl. 11. fig. 5.
Falcaria eburnea, *Oken, Lehrb. Nat.* 91.
Crisia eburnea, *Lamx. Bull. Soc. Phil.* iii. 183, 1812; *Cor. Flex.* 138; Corall. 60; *Expos. Méthod.* 6; *Flem. Brit. Anim.* 540; Templeton, Mag. Nat. Hist. ix. 468; *Blainv. Dict. Sci. Nat.* lx. 424; *Actinol.* 460. pl. 78. fig. 3; *Risso, L'Europ. Mérid.* v. 313; *Couch, Zooph. Cornw.* 41; *Corn. Faun.* iii. 99. pl. 18. fig. 2; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 283. fig. 62. t. 50. figs. 3, 4.

*a, b, c, f.* Dry, on Fuci. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.
*d.* Between talc. Bootle, Cheshire, J. Price, Esq., 1837. Presented by G. Johnston, M.D.
*e.* On Sertularia filicula, with Tubulipora hispida and T. serpens. Berwick Bay. Presented by G. Johnston, M.D.
*g.* With Cellaria cristata and C. loricata. Cork, J. V. Thompson, Esq. Presented by G. Johnston, M.D.
*h, i.* ———? Presented by G. Johnston, M.D.
*j.* In spirits. Presented by G. Johnston, M.D.

2. CRISIA geniculata.

Tibiana, *Lister, Phil. Trans.* 1834, p. 385. pl. 12. fig. 5.
Crisia geniculata, *M.-Edwards, Ann. des Sci. Nat. n. s.* ix. 197. pl. 6. fig. 1; *Mém.* 5; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 287.
*a.* On Fuci, with Sertularia polyzonias. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.
*b.* "A specimen which proves that Cr. geniculata and Cr. eburnea are one species?" Presented by G. Johnston, M.D.
*c.* Ayrshire, Rev. D. Landsborough. Presented by G. Johnston, M.D.

3. CRISIA aculeata.

Crisia aculeata, *Hassall, Ann. & Mag. Nat. Hist.* vi. 170. pl. 7. figs. 3, 4, & vi. 366; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 285.
Crisie ivoire, *M.-Edwards, Ann. des Sci. Nat. n. s.* ix. 198. pl. 6. fig. 2; not *Lamx.*
Crisia eburnea, *Van Beneden, Recherch.* 52. pl. 6. figs. 12–16 (without the spinous processes).
*a.*? *b.*? On Sertularia. Presented by G. Johnston, M.D.

4. CRISIA denticulata.

Cellaria denticulata, *Lamk. Anim. s. Vert.* ii. 137, ed. 2. ii. 182.
Crisia denticulata, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 284. t. 50. figs. 5, 6.
Crisie dentelée, *M.-Edwards, Ann. des Sci. Nat. n. s.* ix. 201. pl. 7. fig. 1.
Crisia luxata, *Flem. Brit. Anim.* 540; *Blainv. Dict. S. N.* lx. 424; *Actinol.* 460; *Johnst. Brit. Zooph.* 262; *Thompson, Ann. Nat. Hist.* v. 252; *Couch, Zooph. Cornw.* 42; *Corn. Faun.* iii. 99. pl. 18. fig. 3; *Macgilliv. Ann. & Mag. Nat. Hist.* ix. 466.
Crisia patagonica?, *D'Orbigny, Voy. Amér. Mérid.*
*a.* Dry, on Sertularia. Berwick Bay. Presented by G. Johnston, M.D.
*b.* Dry, on Fuci. Carnlough, co. Antrim. Presented by G. Johnston, M.D.
*c.* On black paper. Presented by G. Johnston, M.D.
*d.* Jersey. Presented by G. Johnston, M.D.

2. FALCARIA.

Falcaria, *Oken, Lehrb. Nat.* 91, 1815; F. cornuta, *type.*
Crisidia, *M.-Edwards, Mém.*; *Johnst. Brit. Zooph.* ed. 2. 287, 1847.
Eucratea, *Lamx. Bull. Soc. Phil.* iii. 1812; E. cornuta, *type.*
Unicellaria, sp. *Blainv. Dict. Sci. Nat.* lx. 1830.

1. Falcaria cornuta.

Crisidia cornuta, *Johnst. Hist. B. Z.* ed. 2. p. 287. t. 50. figs. 1, 2.
Goat's-horn Coralline, *Ellis, Corall.* 42. no. 10. pl. 21. fig. c, C; *Couch, Zooph. Cornw.* 39.
Sertularia cornuta, *Linn. Syst.* 1316 (ed. 10. 810); *Berk. Syn.* i. 220; *Esper, Pflanz. Sert.* t. 19. fig. 1–3.
Cellularia cornuta, *Hogg's Stock.* 35.
Cellaria cornuta, *Ellis and Soland. Zooph.* 25; *Lamk. Anim..s. Vert.* ii. 139, ed. 2. ii. 187.
Falcaria cornuta, *Oken, Lehrb. Nat.* 91.
Eucratea cornuta, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 149; *Risso, L'Europ. Mérid.* v. 319; *Flem. Brit. Anim.* 541; *Templeton, Mag. Nat. Hist.* ix. 469.
Unicellaria cornuta, *Blainv. Act.* 462.
Crisidie cornée, *M.-Edwards, Ann. des. Sci. Nat. n. s.* ix. 240. pl. 8. fig. 2.
Crisia cornuta, *Johnst. Brit. Zooph.* 260; *Hassall, Ann. & Mag. Nat. Hist.* vi. 170; *Couch, Corn. Faun.* iii. 97. pl. 17. fig. 4; *Zoologist*, ii. 1095.
Cellularia falcata, *Pall. Elench.* 76.
*a.* Dry, on paper. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.
*b.* Dry, on paper, with Crisia eburnea. Berwick Bay. Presented by G. Johnston, M.D.
*c.* Dry, on Fuci. Cornwall. Presented by G. Johnston, M.D.
*d.* ———? Presented by G. Johnston, M.D.

2. Falcaria setacea.

Crisia setacea, *Couch, Zoologist*, ii. 1096; *Corn. Faun.* iii. 98. pl. 17, fig. sin. under the Crisia cornuta.
Crisidia setacea, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 288.
Inhab.

## Fam. 10. Tubuliporidæ.

Tubiporadæ, *Flem. Brit. Anim.* 528.
Tubuliporidæ, *Johnst. Brit. Zooph.* 247; *J. E. Gray, Syn. Brit. Mus.* 135, 1842; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 265.
Les Tubulipores, *Milne-Edwards, Ann. des Sci. Nat.* viii. 321.

### 1. Tubulipora.

Tubulipora, sp. *Lamk. Hist.* 1816.
Discopora, *Flem. Brit. Anim.* 530, 1828, not *Lamk.* nor *Lamx.*

* *Orbicular, edge cellular, tubes in quincunces?* Patinella.

1. Tubulipora verrucaria.

Caryophyllus sive Fungites minimus, &c., *Planc. de Conch. min. not.* 26. t. 2. no. 9.

Madrepora verrucaria, *Linn. Syst.* ed. 10. 793; *Linn. Syst.* 1272; *Pall. Zooph.* var. β. 281; *Turt. Gmel.* iv. 616; *Oliv. Zool. Adriat.* 218; *Esper, Madrep.* t. 17. fig. *a*, A (not good); Turt. *Brit. Faun.* 204; *Stew. Elem.* ii. 426; *Hogg's Stock.* 38.
Millepora verrucaria, *Ellis and Soland. Zooph.* 137.
Discopora verrucaria, *Flem. Brit. Anim.* 530.
Tubulipora patina, *Lamk. Anim. s. Vert.* ii. 163, ed. 2. ii. 244; *Risso, L'Europ. Mérid.* v. 338; *Blainv. Act.* 425; *Johnst. Trans. Newc. Soc.* ii. 269. pl. 9. fig. 8; *M.-Edwards, Ann. des Sci. Nat.* viii. 329. pl. 13. fig. 1; *Thompson, Ann. Nat. Hist.* v. 252; *Hassall, ibid.* vi. 170; *Couch, Zooph. Cornw.* 44; *Corn. Faun.* 103; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 266. t. 47. figs. 1, 2, 3.
Var. β. Tubulipora bellis, *Thompson, MS.*
*a*. On bark, "Discopora verrucaria." Presented by G. Johnston, M.D.
*b, c, d, e*. "Tubipora patina." Presented by G. Johnston, M.D.
*f*. "Tubulipora bellis"! W. Thompson, Esq. Presented by G. Johnston, M.D., with
*g*. A monstrous variety. Presented by G. Johnston, M.D.

** *Orbicular, edge thin, tubes in radiating ridges.* DISPORELLA.

2. TUBULIPORA hispida.

Madrepora verrucaria, *Fabr. Faun. Grœnl.* 430; *Esper, Madrep.* t. 17. figs. *d*, D. *e*, F. & F, G.
"Coral resembling the cups and foliage of flowers," *Cordiner's Ruins*, No. xxii. on the authority of *Fleming*.
Discopora hispida, *Flem. Brit. Anim.* 530; *Blainv. Act.* 446; *Johnst. Brit. Zooph.* 270. pl. 31. figs. 9, 11; *Thompson, Ann. Nat. Hist.* v. 253; *Hassall, ibid.* vi. 171; *Couch, Zooph. Cornw.* 47; *Corn. Faun.* iii. 109. pl. 19. fig. 1.
Tubulipora hispida, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 268. t. 47. figs. 9, 10, 11; *Savigny, Egypt. Polyp.* t. 6. fig. 3?
*a, b*. On Sertularia abietina, with Tubulipora serpens. Presented by G. Johnston, M.D.
*c*. On Sertularia filicula, with Crisia eburnea and Tubulipora serpens. Berwick Bay. Presented by G. Johnston, M.D.
*d*. On Plumularia falcata, with Tubulipora serpens and Crisia eburnea. Berwick Bay. Presented by G. Johnston, M.D.
*e, f, g*. "Discopora hispida." Presented by G. Johnston, M.D.
*k*. "Tubipora hispida, var. β, with Tubulipora verrucaria, *M.-Edw.*" Presented by G. Johnston, M.D.
*l, m, n, o, p*. "Tubulipora orbiculus." Presented by G. Johnston, M.D.

*q*. With Lepralia simplex and L. catenata. Presented by G. Johnston, M.D.

*r*. With "Hippothoa catenularia." Presented by G. Johnston, M.D.

*s*. On Fuci. Presented by G. Johnston, M.D.

"A state of Tubulipora orbiculus." Presented by G. Johnston, M.D.

Var. β. smaller, base circular, the centre orbicular.

Tubulipora orbiculus, *Lamk. Anim. s. Vert.* ii. 163, ed. 2. ii. 243.

*h, i, j*. "Discopora hispida, *Flem.*" Presented by G. Johnston, M.D.

*** *Base elongated or incrassated, tubes scattered.* PENCILLETTA.

3. TUBULIPORA penicillata.

Tubulipora penicillata, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 271. t. 48. figs. 1, 2.

Tubipora penicillata, *Fabr. Faun. Grœnl.* 429; *Turt. Gmel.* iv. 615.

Tubulipora Fungia, *Couch, Zooph. Cornw.* 46; *Corn. Faun.* iii. 107. pl. 19. fig. 3.

*a, b, c*. Cornwall, R. Q. Couch, Esq. Presented by G. Johnston, M.D.

4. TUBULIPORA hyalina.

Tubulipora hyalina, *Couch, Zooph. Cornw.* 47; *Corn. Faun.* iii. 108; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 276.

Inhab. Polperro. On Fucus palmatus, *Couch.*

2. PHALANGELLA.

Phalangella, *Gray, Appendix, Proc. Zool. Soc.* 1848.

Tubulipora, sp. *Johnston.*

1. PHALANGELLA Phalangea.

Tubulipora Phalangea, *Couch, Corn. Faun.* iii. 106. pl. 19. fig. 7; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 273. pl. 46. figs. 1, 2.

Tubulipora verrucaria?, *M.-Edw. Ann. des Sc. Nat. n. s.* viii. 323. pl. 12. fig. 1; *Hassall* (?), *Ann. & Mag. Nat. Hist.* vi. 171. pl. 6. figs. 3, 4; and (!) vii. 366.

*a, b, c*. Cornwall, R. Q. Couch, Esq. Presented by G. Johnston, M.D.

2. PHALANGELLA flabellaris.

Tubipora flabellaris, *Fabr. Faun. Grœnl.* 430; *Turt. Gmel.* iv. 615.

Discopora palmata?, *Risso, L'Europ. Mérid.* v. 339.

Tubulipora flabellaris, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 274. t. 46. figs. 5, 6.

*a, b, c, d.* On Fuci. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.
*e, f, g.* On Fuci. Presented by G. Johnston, M.D.

### 3. Coronopora.

Coronopora, *Gray, Appendix; Proc. Zool. Soc.* 1848.
Ceriopora, sp. *Goldfuss?*
Millepora, sp. *Jameson.*
Tubulipora, sp. *Johnston.*

1. Coronopora truncata.

Millepora truncata, *Jameson, Wern. Mem.* i. 560.
Tubulipora truncata, *Flem. Brit. Anim.* 529; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 271. t. 33. figs. 8–10.
*a.* Orkney. Dry. Presented by W. E. Leach, M.D., 1816.
*b.* Orkney, fifty fathoms water. In Goadby's fluid. Presented by R. MacAndrew, Esq., 1848.

### 4. Obelia.

Obelia, *Lamx. Exp. Méth.* 81. t. 80, 1821; not *Peron.*
Pustulipora, *Johnst. Brit. Zooph.* ed. 2. 279, 1847.
Idmonea, sp. *M.-Edw.*
Tubipora, sp. *Linn. S. N.* i. 789, 1757.
Tubulipora, sp. *Lamk. Hist.* ii. 162, 1816.

1. Obelia serpens.

Small purple Eschara, *Ellis, Corall.* 74. no. 6. pl. 27 *e*, E; copied in *Ann. des Sc. Nat. n. s.* viii. pl. 12. fig. 2.
Tubipora serpens, *Linn. Syst.* ed. 10. 790; *Linn. Syst.* 1271; *Turt. Gmel.* iv. 614; *Jameson, Wern. Mem.* i. 561; *Stew. Elem.* ii. 426; *Bosc, Vers,* ii. 351.
Millepora liliacea, *Pall. Elench.* 248; *Turt. Gmel.* iv. 639; *Turt. Brit. Faun.* 205; *Bosc, Vers,* ii. 345.
Millepora tubulosa, *Ellis and Soland. Zooph.* 136; *Turt. Gmel.* iv. 639; *Turt. Brit. Faun.* 205; *Stew. Elem.* ii. 428; *Bosc, Vers,* ii. 345; *Hogg's Stock.* 37.
Cellepora ramulosa, *Esper, Pflanz. Cellep.* t. 5.
Tubulipora fimbria, *Lamk. Hist. Anim. s. Vert.* ii. 163?
Tubulipora transversa, *Lamk. Anim. s. Vert.* ii. 162, ed. 2. ii. 242; *Risso, L'Europ. Mérid.* v. 338; *Lamx. Expos. Méth.* i. pl. 64. fig. 1 (copied from *Ellis*); *Stark, Elem.* ii. 437; *Johnst. Trans. Newc. Soc.* ii. 269; *Blainv. Act.* 424.
Obelia tubulifera, *Lamx. Expos. Méthod.* 81. t. 80. figs. 7, 8; copied in *Blainv. Actinol.* 424. pl. 71. fig. 1, and in *Ann. des Sc. Nat. n. s.* viii. pl. 12. fig. 3; *Lamk. Anim. s. Vert.* ed. 2. ii. 246.

Tubulipora foraminulata, *Blainv. Actinol.* 425. pl. 62. figs. 3, 3*a* (not of *Lamarck*).
Tubulipora organisans, *D'Orbigny*.
Tubulipora serpens, *Flem. Brit. Anim.* 529; *Couch, Zooph. Cornw.* 45; *Corn. Faun.* iii. 105. pl. 19. fig. 6; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 275. t. 47. figs. 4, 5, 6.
Idmonea transversa, *M.-Edw. Ann. des Sc. Nat. n. s.* ix. 218. pl. 9. fig. 3.
Pherusa tubulosa, *Templeton, Mag. Nat. Hist.* ix. 469—on the authority of *W. Thompson in Ann. Nat. Hist.* v. 252.
*a*. On Plumularia falcata. Berwick Bay. Presented by G. Johnston, M.D.
*b*. On Sertularia abietina, and with Tubulipora hispida. Presented by G. Johnston, M.D.
*c*. On Sertularia Felicula, with Crisia eburnea and Tubulipora hispida. Berwick Bay. Presented by G. Johnston, M.D.
*d*. On Modiola, with Lepralia hyalina. Presented by G. Johnston, M.D.
*e*. On a Limn, with Lepralia annulata! Presented by G. Johnston, M.D.
*f, g, h, i*. On Fuci. Presented by G. Johnston, M.D.
*j, k, l, m*. On shell. Presented by G. Johnston, M.D.

2. Obelia deflexa.

Tubulipora deflexa, *Couch, Zooph. Cornw.* 46; *Corn. Faun.* iii. 107. pl. 19. fig. 4.
Pustulipora deflexa, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 279. t. 48. fig. 5, 5.
Tubulipora serpens var.?, *Johnston, l. c.* 279.
*a, b, c*. Cornwall, R. Q. Couch, Esq. Presented by G. Johnston, M.D.

3. Obelia lobulata.

Tubulipora lobulata, *Hassall, Ann. & Mag. Nat. Hist.* vii. 367. pl. 10. figs. 1, 2; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 272.
T. serpens var., *Thompson, MSS.*

## 5. Idmonea.

Idmonea, *Lamx. Expos. Méth.* 80. t. 79?; *E. Forbes*; *Johnst. Brit. Zooph.* ed. 2. 277, not *Flem.*

1. Idmonea atlantica.

Idmonea atlantica, *E. Forbes, MSS.*; *Johnst. Brit. Zooph.* ed. 2. p. 278. t. 48. fig. 3, 3.
*a, b*. Zetland, "E. Forbes." Presented by G. Johnston, M.D.

6. ALECTO.

Alecto, *Lamx. Exp. Méth.* 84, 1821; *Blainv.* 1830; *Johnst. Brit. Zooph.*; not *Leach*, 1815.

1. ALECTO granulata.

Alecto granulata, *M.-Edw. Mém.* p. 13. pl. 16. fig. 3, 3; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 280. t. 49. figs. 1, 2.
Tubulipora trahens, *Couch, Zooph. Cornw.* 45; *Corn. Faun.* iii. 105. pl. 19. fig. 5 (not good).
*a, b, c, d, e, f, g, h.* On shell. Sana. Presented by G. Johnston, M.D.
*i, k.* With Lepralia catenata. Sana. Presented by G. Johnston, M.D.

2. ALECTO major.

Tubulipora repens?, *S. V. Wood, Ann. & Mag. Nat. Hist.* xiii. 14.
Alecto major, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 281. t. 49. figs. 3, 4.
Alecto dichotoma, *Landsborough, MSS.*
*a, b, c, d.* Sana Island. On shells and stones. Presented by G. Johnston, M.D.

3. ALECTO dilatans.

Tubulipora palmata?, *S. V. Wood, Ann. & Mag. Nat. Hist.* xiii. 14.
Alecto dilatans, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 282. t. 49. figs. 5–8.
*a, b, c, d.* Sana Island. On shells. Presented by G. Johnston, M.D.

4. ALECTO gracilis.

Alecto gracilis, *M.-Edw. Mém.* 15. t. 16. fig. 2; *Johnst. Brit. Zooph.* ed. 2. 282.
Inhab. Isle of Man.

7. BERENICEA.

Berenicea, *Lamx. Exp. Méth.* 80. t. 80. figs. 1, 2, 1821, not *Peron.*
Tubulipora, sp. *Johnst. Brit. Zooph.* ed. 1, 1838.
Diastopora, *Johnst. Brit. Zooph.* ed. 2. 276, 1847, not *Lamx. Exp. Méth.* 73, 1821 (fossil Flustra).
Diastopores simples, *M.-Edw. Ann. Sci. Nat.* v. 252.
Berenicea, sp. *Flem. Brit. Anim.* 1828.
Obelia, *Gray, Misc.*; not *Lamx.* 1821.

1. BERENICEA hyalina.

Berenicea prominens, *Lamx. Exp. Méth.* 80. t. 80. figs. 1, 2?
Berenicea hyalina, *Flem. Brit. Anim.* 533 (1828).

Obelia tubifera, *Gray, Zool. Misc.* 35.

Tubulipora Obelia, *Johnst. Brit. Zooph.* 269. pl. 30. figs. 7, 8; *Couch, Zooph. Cornw.* 47; *Corn. Faun.* iii. 108; *Thompson, Ann. Nat. Hist.* v. 252.

Diastopora Obelia, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 277. t. 47. figs. 7, 8.

*a, b, c.* On shells, with Tubulipora orbiculus. Presented by G. Johnston, M.D.

*d, e, f.* On Modiola. Presented by G. Johnston, M.D.

*g, h.* On Pinna. Cork. Presented by G. Johnston, M.D.

*i.* With Cellepora pumicosa. Presented by G. Johnston, M.D.

*k.* "Tubulipora." Scilly Island, J. Mac Andrew, Esq. Presented by G. Johnston, M.D.

### 8. Pustulipora.

Pustulipora, *Blainv. Dict. Sc. Nat.* lx.?; *Man. Act.* 418?; *E. Forbes*; *M.-Edw. Ann. Sci. Nat.*; *Johnst. Brit. Zooph.* ed. 2. 1847, 279.

1. Pustulipora proboscidea.

Pustulipora proboscidea, *M.-Edw. Mém.* 27. pl. 12. fig. 2; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 279. t. 48. fig. 4, 4.

*a.* Zetland Sea. E. Forbes. Presented by G. Johnston, M.D.

# APPENDIX.

## I. THE CHARACTER OF THE FAMILIES AND GENERA PROPOSED IN THIS CATALOGUE.

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Fam. CAMPANULARIADÆ, p. 83.

CONCHELLA, p. 88.

Coral closely interwoven, resembling a loose-textured sponge; fibres not rugged; cells bell-shaped. "Tentacles 8, rarely 10. Larva is a planula." *Dalyell.*

4. COPPINIA, *Hassall, MSS.* p. 88.

"Polypidom parasitic, hirsute; cells elongate, tubular, mostly curved, arising out of the angle of junction of ascending or basal cells, and the apertures of which are frequently covered with a lid or operculum, which is itself perforated by a small tubular orifice."—*Hassall, MSS.*

1. COPPINIA mirabilis.

Coppinia mirabilis, *Hassall, MSS.*

*a.* Coast of Dublin, 1842. Presented by A. H. Hassall, Esq.

Class V. POLYZOA, p. 91.

Order I. CARNOSA.

*The polypes covered with a fleshy envelope uniting together into a fleshy polypidom.*

Fam. 1. ALCYONIDIADÆ, p. 91.

Polypidom spongy, fleshy, polymorphous; polype cell irregularly disposed with a contractile aperture: no external ovarian capsules.

## Order II. CORNEA.

*The polypes covered with a horny flexible external case, forming a massive or arborescent polypidom.*

A. *The body of the polype adnate to the cell.*

Fam. 2. PEDICELLINIDÆ, p. 93.

Polypidom creeping, sending forth club-shaped cells; tentacles numerous, contractile (not retractile) into the cells.

B. *The body of the polype separate from the parietes of the cell.*

Fam. 3. VESICULARIADÆ, p. 94.

Polypidom confervoid, horny, fistulous, continued, not jointed; polype cell tubular, cylindrical, deciduous.

Fam. 4. CRISTATELLIDÆ, p. 99.

Polypidom tubular, not jointed, often united together into a mass; polype cells cylindrical, tubular, permanent.

Fam. 5. PALUDICELLAIDÆ, p. 102.

The polypidom confervoid, jointed; polype cells ovate, with a roundish rather tubular-lateral subapical aperture, all opening on one side of the polypidom.

C. *The polypes covered with a coriaceous external case, which is thicker on the sides and underpart and thinner above; opening of the cell subapical, linear, transverse.*

Fam. 6. FLUSTRADÆ, p. 103.

Polype cells placed side by side, forming an expanded crust on rocks, or continued frond, bearing cells on one or both of its sides; ovicells numerous, subglobose.

*a. Interspaces between the cells coriaceous.*

1. FLUSTRA, p. 103.

Coral frondose, expanded, forked, with cells on both sides, or crustaceous, applied to marine bodies; cells ovate, six-sided, broad above, narrower below, semi-alternate with scattered marginal denticles; ovarial cells globular.

2. CHARTELLA, p. 104.

Coral frondose, expanded, lobed, with cells on both sides; cells linear-oblong, in many series, with smooth edges.

3. CARBASEA, p. 105.

Coral frondose, expanded, lobed, with the cells only on one side; cells oblong, six-sided, in many series, narrow and truncated below, with smooth edges.

4. AVICULARIA, p. 105.

Coral linear, branched, forked, with the cells only on one side; cells oblong, with a spine on each side of the aperture; ovarial cells globular, large.

5. FLABELLARIA, p. 106.

Coral linear, branched, forked, with the cells only on one side, with scattered root-like fibres; cells ovate, hexangular, truncated above, many-rowed; edge spinose; ovarial cells hemispherical.

6. ANNULIPORA, p. 107.

Coral incrusting, membranaceous; cells shallow, ovate, circular, spinose on the edge, close together; ovarial cells ——?

7. FLUSTRELLA, p. 108.

Coral incrusting, defined, rather fleshy, spinulose; cells shallow, ovate, spinose on the edge, rather far apart.

*b. Interspaces between the cells calcareous.*

8. CONOPEUM, p. 108.

Coral incrusting, forming a regular roundish spot, formed of a single layer of regular cells placed close side by side, calcareous, rather vesicular; cells rhombic, in a quincunx; ovarial cells very small, globular.

9. CALLOPORA, p. 109.

Coral incrusting, forming a regular roundish spot formed of a single layer of regular cells placed side by side, those of the circumference being imperfect; cells ovate, elongate, edged with crowded spines; membranaceous above; ovarial cells globular.

10. AMPHIBLESTRUM, p. 110.

Coral incrusting, spreading, formed of a single layer of regular cells placed side by side; cells elongate-oblong, four-sided, sides thick, calcareous, each defined with a slight groove above, upper surface membranaceous.

Fam. 7. BUGULIDÆ, p. 110.

Polype cells single or in pairs or threes, each group forming a joint of a jointed confervoid polypidom, having the aperture of the cells all on one side.

1. CRISULARIA, p. 111.

EPISTOMIA, p. 83, should be arranged in this family. See *Busk, Rep. Misc. Soc.* 1848, 14.

The following exotic genera appear to belong to this family :—

SELBIA, *Gray, Dieffenbach, New Zealand*, ii. 292, 1843. S. Zelandica.

HALOPHILA, *Gray, l. c.* ii. 292, 1843. H. Johnstoniæ.

CABEREA, *Lamx. Corall.* 128, 1816; *Blainv.* 1830. Cellularia, sp. *Lamk. Hist.* 1816. Cab. dichotoma.

D. *The polypes covered with a hard coriaceous external case of equal thickness throughout; opening of the cell subapical, linear, transverse.*

Fam. 8. MICROPORIDÆ, p. 115.

Polype cells forming a crust, placed in a single layer in a quincunx manner.

1. MICROPORA, p. 115.

Coral crustaceous; cells in a quincunx; aperture linear and lunate.

## Order III. CALCAREA.

(*Polypes forming a calcareous coral.*)

### Suborder I. CELLEPORINA, p. 115.

*Coral calcareous, the polypes covered with a calcareous external case of equal thickness throughout; opening of the cell subapical, roundish.*

Fam. 9. CELLEPORIDÆ, p. 115.

Polype cells placed side by side, forming an applied crust, or frondose, or branched, not jointed, polypidom generally furnished with globular capsules.

*a. Cells attached, forming an anastomosing network without any crust; ovarian cell globular* (Savig. Pol. Egypt. t. f. 3). HIPPOTHOINA, p. 115.

1. HIPPOTHOA, p. 115.

*b. Cells side by side in a single layer, forming a crust.* LEPRALIANA, p. 116.

CRIBRILINA, p. 116.

Cells spongy, porous or cribellated, placed side by side in a single series, only slightly thickened by age, uniform, decumbent; mouth superior, semilunar; ovarian tube none.

LEPRALIA, p. 117.

Cells calcareous, hard, placed side by side in a single series, only slightly thickened by age, decumbent; mouth superior, semilunar; ovarian tubes none; ovicell globular, anterior, simple in front.

* Mouth of cell unarmed.

† Crust pierced between the cells. Spec. 1. *L. Jacotini.*

† Crust continued. *Sp.* 2. *L. simplex.*

** Mouth of cell ciliated. *Sp.* 19 *to* 21. *L. ciliata*, &c.

*** Mouth of cell with a spine on each side, *Microstoma.* 22. *L. annulata.*

HERENTIA, p. 122.

Cells calcareous, hard, placed side by side, forming a uniform crust, only slightly thickened by age, decumbent; mouth superior, semicircular, with a cylindrical ovarian tube on one side below the mouth; ovicell globular, anterior.

7. ESCHARINA, p. 123.

Cells calcareous, hard, placed side by side in a single series, decumbent, uniform, only slightly thickened by age; mouth subterminal, superior, with a triangular ovarian tube on each side; ovicell globular, anterior.

8. ESCHARELLA, p. 125.

Cells hard, calcareous, placed side by side in a single series, not altered by age, forming an undefined crust; the younger cells on the circumference decumbent, with a superior aperture; the older cells in the middle of the crust sunk, confused, vesicular. A crustaceous *Eschara.*

9. DISCOPORA, p. 126.

Cells calcareous, placed side by side, forming a crust only slightly thickened by age; cells ovate, ascending, with a large round terminal mouth with a large tooth in front; ovarian tubes none; ovicell none?

11. PORELLA, p. 127.

Coral erect, branched, vesicular, roundish, tips of branches compressed, with regular cells placed in a quincunx; cells of the older part of the coral rounded.

12. CELLEPORINA, p. 128.

Coral crustaceous, attached; cells hard, calcareous, crowded, forming a circumscribed crust; the younger cells in the circumference decumbent, radiating, free at the end, the older cells in the centre crowded, ascending or suberect, united to-

gether nearly to the mouth; younger cells with a roundish subterminal mouth with a tubular ovarian tube on each side; ovicells globular, small, anterior.

13. CELLEPORELLA, p. 128.

Coral crustaceous, attached; cells hard, calcareous, crowded, forming a circumscribed crust; the younger cells on the circumference decumbent, radiating, free at the end, the outer cells in the centre crowded, ascending, or suberect, united together nearly to the mouth; younger cells with a simple round terminal mouth without any ovarial tubes (or ovicells?).

Fam. 10. SCUPARIADÆ, p. 132.

Polype cell single or in pairs, each forming a joint of an articulated conferva-like polypidom with the mouth of all the cells on one of its sides.

4. SALPINGIA, *Coppin, MSS.*

"Cells elongated, sessile, on a branched stem; apertures lateral, broader above than below; produced base of cells surrounded by one or more spines and trumpet-shaped processes." *Coppin, MSS.*

1. SALPINGIA Hassallii.

Salpingia Hassallii, *Coppin, MSS.*
Brighton, 20th June, 1848. On filamentous Algæ. Presented by John Coppin, Esq.

Suborder II. TUBULIPORINA, p. 134.

*The polypes covered with a transparent glassy external cylindrical tubular case of equal thickness, with the opening at the end of the tube; ovicells? vesicular.*

Fam. 11. CRISIADÆ, p. 135.

Polype cell single or in pairs, forming a joint of an articulated conferva-like polypidom with the mouths of all the cells on one side.

Fam. 12. TUBULIPORIDÆ, p. 137.

Polype cells on an expanded crust-like or branched, not jointed, polypidom.

2. PHALANGELLA, p. 139.

Coral expanded, crustaceous, lobed or fan-shaped, without any visible margin, upper surface covered with tubular cells placed in irregular cross rows.

3. CORONOPORA, p. 140.

Coral calcareous, spongy, cylindrical, proliferous (as if branched), surface pitted, apex truncated, rather convex, with the tubular cells placed in convex diverging ridges.

## II. ADDITIONS AND CORRECTIONS.

Page 4. "ECHINUS, n. s." *MacAndrew.*

*b, c.* Zetland, in solution of bay-salt. Presented by R. MacAndrew, Esq.

*e, f, g.* Zetland. Dry. Presented by R. MacAndrew, Esq.

7. ECHINOCARDIUM ovatum.

*c, d, e, f.* Hebrides, Zetland. Presented by R. MacAndrew, Esq.

7. BRISSIOPSIS lyrifer.

*c, d, e, f.* Hebrides. Presented by R. MacAndrew, Esq.

8. THYONE Raphanus.

*a.* Zetland. Presented by R. MacAndrew, Esq.

7. Thyone, *add* Anaperus, *Troschel, Erich. Arch. Nat.* 1846, 60.
Thyone fusus, *add* Anaperus fusus, *Troschel, Erich. Arch. Nat.* 1846, 62.

9. PSOLUS phantopus.

"Holothuria squamata," *MacAndrew.*

*a.* Zetland. In solution of bay-salt. Presented by R. MacAndrew, Esq.

14. Sipunculus granulosa, *read* granulosus.

30. Ephyra simplex, *Penn.*, read *Peron.*

41. GYNOSOMATA, *read* GYMNOSOMATA.

51. TURBINOLIA Millesiana.

*b, c, d.* Cornwall. Presented by R. MacAndrew, Esq.

52. CARYOPHYLLIA Smithii, var.

*e.* var. Zetland. Presented by R. MacAndrew, Esq.

57. IRIS hippuris and IRIS extrochus, *read* ISIS.

59. PAVONARIA quadrangularis.

*c, d, e, f.* In spirits. Oban. Presented by R. MacAndrew, Esq.

62. CORDYLOPHORA lacustris.

*a.* In spirits. From a cistern at Kensington. Presented by George Busk, Esq.

70. After Sertularia pumila, *add*

2*. SERTULARIA gracilis.

Sertularia gracilis, *Hassall, MSS. (Ann. Nat. Hist. July* 1848, cover).

*a, b, c.* On Algæ. Brighton. Presented by A. H. Hassall, Esq.

Page 75. Nigellastrum nigra, pinnata, and fusca, *read* N. nigrum, N. pinnatum, and N. fuscum.

82. Epistomia Bursaria, *add* Notamia Bursaria, *Busk, Report Microsc. Soc.* 1848, 14. Mr. Busk describes the animal and proves this genus to belong to *Polyzoa*. It ought to be arranged near *Bicellaria*, p. 112.

Add *d, e, f*. On Algæ. Brighton: common. Presented by John Coppin, Esq.

87. Capsularia Syringa.
*b*. Ramsgate, May 1842. Presented by John Coppin, Esq.

88. 7*. Capsularia serpens, *n. s.*
Campanularia serpens, *Hassall, MSS.*
*a*. Coast of Dublin, 1842. Presented by A. H. Hassall, Esq.

93. *Pulmonellum*: erase. This genus is a *Tunicata*. Add Alpidium Ficus, *Savigny, Mem.* part ii. 183; *Forbes and Hanley, British Conch.* 11.

Alpidium Ficus, *Flem. Brit. Anim.* 470.

133. Æolea Anguina, *add* Anguinaria spatulata, *Busk, Rep. Microsc. Soc.* 1848, 15. Mr. Busk describes the animal.

141. Idmonea atlantica.
*c*. Zetland. Presented by R. MacAndrew, Esq.

# CONCORDANCE

OF THE NAMES USED IN THE FOLLOWING WORKS ON BRITISH RADIATA AND IN THIS CATALOGUE, WITH A REFERENCE TO THE PAGE IN EACH WORK.

## I. FORBES'S HISTORY OF BRITISH STAR-FISHES.


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## II. FORBES'S BRITISH ACALEPHÆ.

Mr. Edward Forbes has given me the following List of British Acalephæ, about to be published by the Ray Society; "all the spurious and incomprehensible species being rejected."—*March* 28, 1848.

I. Ciliograda.

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# LIST

OF THE SPECIMENS OF

# BRITISH SPONGES

IN

## THE COLLECTION

OF THE

## BRITISH MUSEUM.

LONDON:
PRINTED BY ORDER OF THE TRUSTEES.
1848.

# INTRODUCTION.

The principal object of the present List has been to give a complete Catalogue of the British specimens of Sponges contained in the Collection of the British Museum, indicating at the same time the peculiarities of each as regards age, habitation, condition, and the source from whence it has been received.

With this view, the different individuals of each species contained in the Collection are indicated by the letters *a*, *b*, *c*, &c., following the name of the species and its synonyma, and followed by the *habitat*, state, and the source from whence the specimens were derived.

Those specimens which have been presented to the Museum have the name of the donor; and in general the collection from whence the specimen has been purchased or procured in exchange is also marked, as it often gives some authenticity to its history.

In the adoption of the generic and specific names it has been thought right to use, wherever it was possible, that which was first applied to the species. As far as regards the specific name, there is comparatively little difficulty in the application of this simple rule; but generic names have been used by different authors in senses so widely different, and the groups which they were meant to designate have been so variously extended and restricted, that it was no easy matter to determine, where several names have been used, which of them ought to be preferred. Great attention has been paid to consult the original authority, to know the type, and select the name which appeared to be the most ancient; and reference is made to the work in which, and the *date* when, each genus and its synonyma were respectively published.

Under each species there have been appended all the names under

which the animal or coral has been mentioned since the establishment of the Linnæan system of nomenclature, and reference is given to the work in which these were first used, and especially to the different works treating on British animals in which it is mentioned, and also a reference to the best figures. The chief part of these references have been extracted from the admirable and classical work on the Sponges by Dr. George Johnston, additional references having been made to older exotic works which have escaped his researches, or to others which have appeared since his publication.

The British Museum is fortunate in having received the chief portion of the specimens from the several authors who originally described the species, so that there can be no doubt of the specimens being the real representatives of the names they bear; for besides possessing some of the original specimens collected and described by Colonel George Montague and Dr. W. E. Leach, Dr. George Johnston of Berwick has most kindly presented to the Museum the whole of his Collection, which he used in the preparation of his classical work on this subject.

As the attention to the laws of priority, now so universally adhered to, has caused the alteration of a few of the names used in Dr. Johnston's work, a Concordance showing the changes has been added.

JOHN EDWARD GRAY.

June 12th, 1848.

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Spongia, *Linn. S. N.* 1296.
Les Sponges, *Cuv. Tab. Elem.* 628, 1798; *Règ. Anim.* iii. 321, 1817.
Spongites, *Latreille, Fam. Nat.* 547.
Spongidiæ and Alcyonideæ, *Gray, Brit. Plants,* 352, 354.
Spongiadæ, *Flem. B. A.* 518, 1828.
Spongiaires, *M. Edw. in Lam. Hist. Anim. s. Vert.* ed. 2. ii. 534.
Zoophyta porifera, *Grant, Crit. Comp. Anat.* 5; *Cyclop. Anat. and Phys.* p. 108; *Roget, Bridg. Treat.* p. 147.
Ceratophyta spongiosa, *Schweiger, Handb.* 421, 1820.
Amorphozoa, *Blainv. Man. Act.* 527; *Johnst. B. Sponges,* 78.
Spongia, *Lamour. Bull. Soc. Phil.* iii. 182, 1812.

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Tethia or Tethya, *Lam. Anim. s. Vert.* ii. 384; *Gray, Br. Pl.* i. 361; *Flem. Brit. Anim.* 519; *Schw. Beobacht.* vii. and *Handb.* 422.
Tethea, *Johnston, Brit. Sp. and Coral.* pp. 81, 244.
Les Thétyes, *Cuv. Règ. Anim.* iii. 321.
Tethium, *Blainv. Man.* 544.
Alcionium β. *Cuv. Tab. Elem.* 682, 1798.

1. Tethya Cranium.

Alcyonium Cranium, *Müll. Zool. Dan. Prod.* 255; *Zool. Dan.* tab. 85, not figured; *Turt. Gmel.* iv. 654; *Lamour. Cor. Flex.* 347, *Corall.* 248.
Tethya Cranium, *Lam. Anim. s. Vert.* ii. 386, and ii. 592, 2nd edit.; *Flem. Brit. Anim.* 519; *Blainv. Actinol.* 544; *Stark, Elem.* ii. 423; *Johnston, Brit. Sponges,* p. 83. t. 1. f. 1–8, and 244 (not *Risso, E. M.* v. 364).

Alcyonium globosum, *Müll. Zool. Dan.* tab. 157. figs. 1, 2.
Alcyonium Lyncurium, *Esper, Alcyon.* tab. 19. fig. 1; *Jameson in Wern. Mem.* i. 563.
Spongia pilosa, *Montagu in Wern. Mem.* ii. 119. pl. 13. figs. 1, 2.
Tethya pilosa, *Gray, Brit. Plants,* 362; *Grant, Edinb. N. Phil. Jour.* p. 196.
*a.* Slice of (Tethya Cranium), from Dr. Fleming. Presented by G. Johnston, M.D.
*b, c.* In spirits. Zetland. Presented by G. Johnston, M.D.
*d.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

2. Tethya aurantium.

Tetie sferica, *Donati, Nat. mar. dell' Adriat.* 64. tav. 9. figs. *a, b, c.*
Alcyonium aurantium, *Pall. Elench.* 357; *Esper, Alcyon.* tab. 19. fig. 4–8; copied from *Donati.*
Alcyonium Lyncurium, *Gmelin. Syst.* 1295; *Turt. Gmel.* iv. 653; *Lamour. Cor. Flex.* 343, *Corall.* 246; *Bosc. Vers,* iii. 159.
Tethya Lyncurium, *Lam. Anim. s. Vert.* ii. 386 (592, 2nd edit.); *Risso, L'Europ. Mérid.* v. 363; *Blainv. Actinol.* 544. pl. 91. fig. 3?; *Delle Chiaje, Anim. s. Vert. Nap.* iii. 116; *Johnston, Brit. Sp.* p. 85. Woodcut, N. 12. and p. 244.
Spongia verrucosa, *Montagu in Wern. Mem.* iii. 117. pl. 13. figs. 4, 5.
Tethya verrucosa, *Gray, Brit. Plants,* p. 362.
Tethya sphærica, *Fleming, B. A.* 520; *Bellamy, South Devon,* 268.
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*c, d, e, f.* In spirits. Cunnemara. Presented by G. Johnston, M.D.
*g.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.
*h.* In spirits. Torbay. Presented by Mrs. Griffith.

## 2. Geodia.

Geodia, *Lam. Anim. s. Vert.* 2nd edit. ii. 593; ? *Audouin et Milne Edwards, Hist. Nat. du Litt. de la France,* i. p. 77; *Blainv. Man.* 534; *Schweig. Handb.* 422; *Johnston, Br. Spon.* pp. 195, 244.
Cydonium, *Flem. B. A.* 516; *Blainv. Dict. Sci. Nat.* lx. 489 (Sponge not animal).
Alcyonium, sp. *Couch, Corn. Fauna,* iii. 133.

1. Geodia Cydonium.

Alcyonium Cydonium, *Jameson in Wern. Mem.* i. 563!; *Stew. Elem.* ii. 432; not *Müll. Zool. Dan.* t. 81.

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Cydonium Mulleri, *Flem. Brit. Anim.* 510; *Grant in Edinb. New Phil. Journ.* ii 195; *Johnston's Brit. Zooph.* 191; not *Blainv. Man.* 525.
Geodia Zetlandica, *Johnston, Brit. Sponges*, 195. t. 3. fig. 34.
Alcionio primo, *Donati, Stor. Nat.* t. 8. figs. *a, b, c, d*?
Alcyonium subviride, *Couch, Corn. Fauna*, iii. 133.

*a.* A slice of Cydonium Mulleri, figured *Brit. Sponges*, t. 3. figs. 3, 4. From Dr. Fleming. Presented by G. Johnston, M.D.
? *b.* ("G. Zetlandica"), Cornwall, W. C. Peach, Esq. Presented by G. Johnston, M.D.
*c.* Ireland. Presented by G. Johnston, M.D.
*d.* Spicula of *a*, in Canada balsam, prepared by J. S. Bowerbank, Esq.

### 3. Pachymatisma.

Pachymatisma, *Bowerbank, Trans. Microscop. Soc.* 1847; *Johnst. Brit. Sp.* 1842.

1. Pachymatisma Johnstonia.

Halichondria Johnstonia, *Bowerbank's MSS.*; *Johnst. Brit. Sponges*, 198. t. 5. fig. 3.
Pachymatisma Johnstonia, *Johnst. Brit. Sponges*, 244; *Bowerbank, Trans. Microscop. Soc.* i. t.

*a.* Torquay, Devon, J. S. Bowerbank. Presented by G. Johnston, M.D.
*b.* In spirits, large size, Torquay. Presented by J. S. Bowerbank, Esq.
*c.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

### 4. Halichondria.

Halichondria, *Flem. Brit. Anim.* 520, 1828; *Johnst. Br. Sp.* pp. 88, 244.
Halina, *Grant in Edinb. Encyclop.* xviii. 844.
Haliclona, *Grant, Outl. Comp. Anat.* 5.
Halispongia, *Blainv. Actinolog.* 532, 1834.
Tupha and Scypha, sp. *Gray*, 1821.
Manon, sp. *Schweig.* 1820.
Tragos, sp. *Schweig.* 1820.
Cliona, *Grant*; *Johnst. B. Zooph.* ed. 1.
Alcyonium, sp. *Esper*; *Lamk.* 1816 (not 1801).
Anthelia, sp. *Blainv. Dict. Sc. Nat.* lx.
Alcyonium *β*, *Cuv. Tab. Elem.* 682.
Chaonites, sp. *Mantell.*

### *a.* TUPHA, sp. *Gray.*

1. HALICHONDRIA palmata.

Spongia palmata, *Sibb. Scot.* ii. lib. iv. 55; *Ellis and Soland. Zooph.* 189. pl. 58. fig. 6; *Turt. Gmel.* iv. 659; *Turt. Brit. Faun.* 209; *Jameson in Wern. Mem.* i. 562; *Montagu in ibid.* ii. 80; *Bosc. Vers,* iii, 172; *Stew. Elem.* ii. 434; *Lam. Anim. s. Vert.* ii. 379, and ii. 569, 2nd edit.; *Lamour. Cor. Flex.* 75, *Corall.* 181; *Parkins. Oryctology,* 46; *Stark, Elem.* ii. 424 (not *Templeton, Mag. N.H.*).

Tupha palmata, *Gray, Brit. Pl.* i. 355.

Halichondria palmata, *Flem. Brit. Anim.; Johnst. in Trans. Newc. Soc.* ii. 269; *Bellamy's South Devon,* 268; *Johnst. Brit., Spon.* p. 93. tab. 2, p. 148. figs. 15 and 24.

Halispongia palmata, *Blainv. Actinol.* 533. pl. 93. fig. 4.

Spongia bacillaris, *Linn. Syst.* 1299; *Müll. Zool. Dan. Prod.* 256; *Turt. Gmel.* iv. 659; *Lamour. Cor. Flex.* 83, *Corall.* 186; *Bosc. Vers,* iii. 171; *Parkins. Oryct.* 48.

Spongia oculata, *Esper, Spong.* tab. 1. figs. 1, 2.

Manon oculatum, *Schweig. Handb.* 422.

Mermaid's gloves, *Shetlanders.*

*a.* On coast of Berwick. Presented by G. Johnston, M.D.

*b.* Spicula of *a,* in Canada balsam. Prepared by J. S. Bowerbank, Esq.

2. HALICHONDRIA oculata.

Spongia ramosa, *Raii Hist.* i. 81, and *Synon.* 29. no. 1.

Spongia ramosa apicibus acutis furcis, *Petiv. Pterigraph. Amer.* tab. 19. fig. 3.

Branched English Sponge, *Ellis, Corall.* 80. no. 1. pl. 32. fig. *f, F; Phil. Trans. abridg.* xii. 261. pl. 7. B.

Spongia oculata, *Pall. Elench.* 390; *Linn. Syst.* 1298; *Ellis and Soland. Zooph.* 184; *Berk. Syn.* i. 213; *Turt. Gmel.* iv. 658; *Turt. Brit. Faun.* 208; *Stew. Elem.* ii. 434; *Montagu in Wern. Mem.* ii. 78. pl. 6. fig. 2; *Lam. Anim. s. Vert.* ii. 378, 2nd edit. ii. 569; *Bosc. Vers,* iii. 170; *Hogg's Stock*: 39; *Lamour. Cor. Flex.* 74, *Corall.* 121; *Parkins. Oryct.* 46.

Halichondria oculata, *Johnst. Brit. Sponges,* 94. t. 3, p. 245.

Tupha oculata, *Gray, Brit. Pl.* i. 354.

Sp. dichotoma, *Gmelin, Syst.* 1299; *Müll. Zool. Dan. Prod.* 256; *Ellis and Soland. Zooph.* 187; *Berk. Syn.* i. 213; *Turt. Gmel.* iv. 659; *Montagu in Wern. Mem.* ii. 82. pl. 6. fig. 1; *Lamour. Cor. Flex.* 67, *Corall.* 177; *Parkins. Oryct.* 45; *Lam. Anim. s. Vert.* ii. 375, 2nd edit. ii. 566; *Bosc. Vers,* iii. 171.

Spongia polychotoma, *Esper, Spong.* tab. 36.

Tupha dichotoma, *Gray, Brit. Pl.* i. 355.

Halichondria ramosa, *Flem. Brit. Anim.* 523; *Bellamy's South Devon*, 268.
Haliclona oculata, *Grant in Outl. Comp. Anat.* 5. fig. 2.
Halispongia ramosa, *Blainv. Actinolog.* 533.
L'H. paniforme, *Blainv. Atlas*, pl. 93. fig. 5.
*a*. Mouth of the Tay, "W. Jackson, jun." Presented by G. Johnston, M.D.
*b*. A fragment. Presented by G. Johnston, M.D.
*c*. Frith of Forth. Presented by G. Johnston, M.D.
*d*. On a crab, *Brit. Sp.* t. 3. Presented by G. Johnston, M.D.
*e*. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

3. HALICHONDRIA cervicornis.

Spongia ramosa, *Ger. Herb. em.* 1577, no. 9; *Merr. Pin.* 116.
Downy-branched English Sponge, *Ellis in Phil. Trans. abridg.* xii. 261. pl. 7. fig. C.
Spongia cervicornis, *Pall. Elench.* 388.
Halichondria cervicornis, *Johnst. Brit. Sponges*, 96. t. 4, 5. p. 245.
Sp. stuposa, *Ellis and Soland. Zooph.* 186; *Turt. Gmel.* iv. 659; *Turt. Brit. Faun.* 208; *Jameson in Wern. Mem.* i. 562; *Montagu in ibid.* ii. 79. pl. 3. figs. 1, 2, and pl. 4; *Stew. Elem.* ii. 434; *Bosc. Vers*, iii. 172; *Lamour. Cor. Flex.* 78, *Corall.* 183; *Parkins. Oryct.* 47; *Lam. Anim. s. Vert.* ii. 381, 2nd edit. ii. 572; *D. Chiaje, Anim. s. Vert. Nap.* iv. 150 (not *Esper*, t. 40).
Tupha stuposa, *Gray, Brit. Pl.* i. 354.
Spongia lanuginosa, *Esper, Spong.* tab. 24. figs. 1, 2; *Lam. Anim. s. Vert.* ii. 379, 2nd edit. ii. 570; *Lamour. Cor. Flex.* 75, *Corall.* 181; *Parkins. Oryct.* 46.
Spongia echidnæa, *Lamour. Cor. Flex.* 68, *Corall.* 177.
Var. β. *Johnst. Brit. Sp.* 96.
Spongia digitata, *Montagu in Wern. Mem.* ii. 84. pl. 7; *Flem. Brit. Anim.* 525 (not *Templeton, Mag. Nat. Hist.*).
Tupha digitata, *Gray, Brit. Pl.* i. 355.
Sp. fruticosa, *Esper, Spongia*, t. 10. figs. 1, 2?
*a*. Short, much-branched, "S. stuposa var. damicornis." Presented by G. Johnston, M.D.
*b*. Elongate, figured *Johnst. Brit. Sp.* t. 5. fig. 1. Presented by G. Johnston, M.D.
*c*. Elongate, figured *Johnst. Brit. Sp.* t. 5. fig. 2. Presented by G. Johnston, M.D.
*d*. Spicula of *b*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

4. HALICHONDRIA hispida.

Spongia hispida, *Montagu in Wern. Mem.* ii. 86. pl. 5. figs. 1, 2.
Tupha hispida, *Gray, Br. Pl.* i. 355.
Halichondria hispida, *Flem. Br. Anim.*; *Johnst. Brit. Sp.* pp. 98. and 245 (only known from Montagu's description).
*a*. "Cornish." Presented by G. Johnston, M.D.
*b*. Specimen of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

5. HALICHONDRIA? ramosa.

Spongia ramosa, *Montagu in Wern. Mem.* ii. 84. pl. 8; *Flem. Brit. Anim.* 526.
Tupha ramosa, *Gray, Brit. Pl.* i. 355.
Halichondria? ramosa, *Johnst. Brit. Spon.* pp. 99, 245.
Inhab. coast of Devon, *Montagu.*

6. HALICHONDRIA tubulosa.

Spongia tubulosa, *Montagu in Wern. Mem.* ii. 91; *Templeton in Mag. Nat. Hist.* ix. 471 (not *Solander and Ellis*, t. 58. fig. 7).
Spongia semitubulosa?, *Lam. Anim. s. Vert.* ii. 380, 2nd edit. ii. 570; *Lamour. Cor. Flex.* 76, *Corall.* 182; *Parkins. Oryct.* 46.
Scypha tubulosa, *Gray, Brit. Pl.* i. 357.
Halichondria Montaguii, *Flem. Brit. Anim.* 522; *Johnst. Brit. Sp.* p. 99. t. 6. fig. 1, p. 245.
*a*. Dublin Bay. Presented by G. Johnston, M.D.
*b*. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

7. HALICHONDRIA Columbæ.

Spongia Columbæ, *Walker, Essays*, 96.
Halichondria Columbæ, *Flem. Brit. Anim.* 521; *Johnst. Brit. Spong.* pp. 101 and 245.
Spongia cancellata, *Sow. Brit. Misc.* 131. pl. 60; *Montagu in Wern. Mem.* ii. 110; *Turt. Brit. Faun.* 208.
Scypha cancellata, *Gray, Brit. Pl.* i. 358.
Inhab. coast of Scotland, *Walker*; Brighton, *Fellows.*

8. HALICHONDRIA? plumosa.

Spongia plumosa, *Montagu in Wern. Mem.* ii. 116; *Flem. Br. Anim.* 526; *Gray, Br. Pl.* i. 361.
Halichondria? plumosa, *Johnst. Br. Sp.* pp. 103, 245.
Inhab. coast of Devon, *Montagu.*

9. HALICHONDRIA fruticosa.

Spongia fruticosa, *Montagu in Wern. Mem.* ii. 112. pl. 14. figs. 3, 4; *Gray, Brit. Pl.* i. 360; *Grant in Edin. New Phil. Journ.* ii. 139. pl. 2. fig. 10; the spiculum copied in *Blainv. Actinol.* pl. 94. fig. 10.

Halichondria fruticosa, *Flem. Brit. Anim.* 522; *Johnston, Br. Spon.* p. 104. t. 14. fig. 1, p. 245.

Spongia crispata, *Esper, Spong.* tab. 37. fig. 1–3?

Spongia licheniformis, *Lam. Anim. s. Vert.* ii. 354, 2nd edit. ii. 543?; *Lamour. Cor. Flex.* 22, *Corall.* 153?

*a.* "Cornwall, J. Couch, Esq." Presented by G. Johnston, M.D.

*b.* Washed. Presented by G. Johnston, M.D.

*c.*? Washed. Presented by G. Johnston, M.D.

*d.* Spicula of *b*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

*b.* TRAGOS, sp. *Schweig.*

10. HALICHONDRIA infundibuliformis.

Spongia infundibuliformis, *Petiv. Pterogr. Amer.* tab. 19. fig. 6?

Spongia infundibuliformis, *Linn. Syst.* 1296; *Müll. Zool. Dan. Prod.* 256. no. 3085; *Esper, Spong.* tab. 57. figs. 1, 2; *Jameson in Wern. Mem.* i. 562; *Turt. Gmel.* iv. 657; *Stew. Elem.* ii. 433; *Bosc. Vers*, iii. 168; *Montagu in Wern. Mem.* ii. 103; *Gray, Brit. Pl.* i. 359.

Spongia? crateriformis, *Pall. Elench.* 386.

Spongia calyciformis, *Lam. Anim. s. Vert.* ii. 365, 2nd edit. ii. 555.

Spongia Pocillum, *Lamour. Cor. Flex.* 45, *Corall.* 166 (not *Müll. et Fabric.*).

Halichondria infundibuliformis, *Flem. Brit. Anim.* 524; *Johnst. Brit. Spong.* p. 105. pl. 6. fig. 3, p. 246.

*a. Br. Sp.* t. 6. f. 3. Cumbra, Rev. D. Landsborough. Presented by G. Johnston, M.D.

*b.* Spicula of *a*, Canada balsam. Prepared by J. S. Bowerbank, Esq.

11. HALICHONDRIA ventilabrum.

Sea-fan Sponge, *Ellis in Phil. Trans. abridg.* xii. 261. p. 7. fig. H.

Spongia ventilabrum, *Linn. Syst.* 1296; *Müll. Zool. Dan. Prod.* 255; *Ellis and Soland. Zoöph.* 188; *Turt. Gmel.* iv. 656; *Jameson in Wern. Mem.* i. 561; *Montagu in ibid.* ii. 105; *Stew. Elem.* ii. 433; *Bosc. Vers*, iii. 167; *Stark, Elem.* ii. 424; *Grant in Edin. New Phil. Journ.* i. 349, and ii. 122. pl. 2. fig. 5, copied in *Blainv. Atlas*, pl. 94. fig. 5.

Halichondria ventilabrum, *Johnst. B. Sponges*, 107. t. 7, p. 246.

Spongia ventilabriformis, *Gray, Brit. Pl.* i. 359.

Halichondria ventilabra, *Flem. Brit. Anim.* 523; *Thompson in Ann. Nat. Hist.* v. 254; *Bellamy's South Devon*, 268.

Halispongia ventilabra, *Blainv. Actin.* 533.
Spongia Zetlandica, *Jameson in Wern. Mem.* i. 561.
Spongia xerampelina, *Grant in Edin. Phil. Journ.* xiv. 116.
Ling Hoods, *Zetlanders.*
*a.* *Brit. Sp.* t. 7. Presented by G. Johnston, M.D.
*b.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.
Var. *β.* *Johnst. Brit. Sp.* 107.
Spongia Scypha, *Montagu in Wern. Mem.* ii. 107. pl. 15. fig. 1.
Sp. foliascens, *Gray, Brit. Pl.* i. 359.

### *c.* Halichondria.

12. Halichondria simulans.

Halichondria simulans, *Johnston, Brit. Sp.* p. 109. t. 8, p. 206.
Var. *α.* Erect, irregularly branched (*Brit. Sp.* figs. 1, 2).
Var. *β.* Creeping, ramose or nodulous (fig. 3).
Halispongia reptans, *Scouler MS.*
Var. *γ.* Papillary (*Brit. Sp.* fig. 4).
Var. *δ.* Massive (*Brit. Sp.* fig. 5).
*a.* Branched. Dublin, Dr. Scouler. Presented by G. Johnston, M.D.
*b.* Branched, *Brit. Sp.* t. 8. f. 1. Dr. Scouler. Presented by G. Johnston, M.D.
*c.* Branched, *Brit. Sp.* t. 8. f. 2. Dr. Scouler. Presented by G. Johnston, M.D.
*d.* Branched. Dr. Scouler. Presented by G. Johnston, M.D.
*e.* Clavate, *Brit. Sp.* t. 8. f. 1. Dr. Scouler. Presented by G. Johnston, M.D.
*f.* Tuberose, *Brit. Sp.* t. 8. f. 1. Dr. Scouler. Presented by G. Johnston, M.D.
*g.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

13. Halichondria cinerea.

Spongia cinerea, *Grant in Edin. New Phil. Journ.* ii. 204. pl. 2. fig. 3 (the spiculum), copied in *Blainv. Actinol.* pl. 94. fig. 3.
Halichondria cinerea, *Flem. Brit. Anim.* 521; *Johnston, Br. Sp.* p. 111. t. 4. figs. 4, 5 (spicula, 246).
Spongia cærulea *Risso, L'Europ. Mérid.* v. 373?; *Delle Chiaje, Anim. s. Vert. Nap.* iii. 113. tav. 37. fig. 11?
Spongia pulverulenta, *Scouler MS.*
*a.* (Dublin Bay?) Presented by G. Johnston, M.D.
*b.*? On a rock, Scarborough, W. Bean. Presented by G. Johnston, M.D.
*c.* & *e.*? Presented by G. Johnston, M.D.
*f.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

14. HALICHONDRIA albescens.

Halichondria albescens, *Johnst. Brit. Sponges*, 198. t. 20. f. 8, and p. 246.
Inhab. ——?

15. HALICHONDRIA panicea.

Halichondria panicea, *Johnst. Brit. Sp.* 114. t. 10 & 11. fig. 5, p. 246; not *Fleming*.
Halichondria papillaris, *Flem. Brit. Anim.* 520; *Johnst. in Trans. Newc. Soc.* ii. 270. pl. 9. fig. 3.
Halispongia papillaris, *Blainv. Actinol.* 532.
Var. 1. *Johnst. Brit. Sp.* 114. t. 10. fig. 1.
Spongia tomentosa, *Gmelin, Syst.* 1299?; *Turt. Gmel.* iv. 659; *Turt. Brit. Faun.* 208; *Stew. Elem.* ii. 434; *Bosc. Vers*, iii. 171.
Alcyonium tomentosum, *Templeton in Mag. Nat. Hist.* ix. 470.
*a*. On Fucus, *Brit. Sp.* t. 10. f. 1. Ireland, W. Thompson. Presented by G. Johnston, M.D.
Var. 2. *Johnst. Brit. Sp.* 114. t. 10. fig. 2.
Fucus marinus noster similis medullæ panis, *Raii Hist. Plant.* iii. 16.
Spongia informis durior, compressa, *Raii Syn.* i. 30. no. 7.
Alcyonium ramosum molle, medullæ panis intus simile, *Raii Syn.* 31. no. 1.
Sponge like crumb of bread, *Ellis, Corall.* 80. no. 2. pl. 16. fig. *d. D*; *Phil. Trans. abridg.* xii. 261. pl. 7. A.
Spongia panicea, *Pall. Elench.* 388; *Turt. Gmel.* iv. 660; *Lamour. Cor. Flex.* 29, *Corall.* 157; *Stew. Elem.* ii. 435; *Bosc. Vers*, iii. 173; not *Esper*, t. 18. f. 12.
Sp. urens, *Ellis and Soland. Zooph.* 187; *Hogg, Stock.* 38; *Templeton in lib. cit.* ix. 471.
Sp. tomentosa, *Montagu in Wern. Mem.* ii. 99; *Jameson in ibid.* i. 562; *Gray, Brit. Pl.* i. 361; *Grant in Edin. Phil. Journ.* xiv. 114.
Sp. urtica, *Risso, L'Europ. Mérid.* v. 370.
Alcyonium papillosum, var. 2, *Lamarck, Anim. s. Vert.* ii. 398, 2nd edit. ii. 604.
Alcyonium medullare, *Lam. Anim. s. Vert.* ii. 400, 2nd edit. ii. 606; *Templeton in Mag. Nat. Hist.* ix. 470; *Lamour. Cor. Flex.* 355, *Corall.* 251.
Alcyonium paniceum, *Lam. Anim. s. Vert.* ii. 400, 2nd edit. ii. 607.
Alcyonium tubulosum, *Esper, Alcyon.* 40. t. 11. figs. 1, 2 (on stalk of *Laminaria*).
*b, c*. Tubular, from stem of Fucus. Presented by G. Johnston, M.D.
*d*. Expanded, on Fuci. Presented by G. Johnston, M.D.

? *e. & f.* Presented by G. Johnston, M.D.

*g.* Spicula, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

Var. 3. *Johnst. Brit. Sp.* 114. t. 10. figs. 3, 4. (Plate XI. fig. 5.)

Cock's-comb Sponge, *Ellis in Phil. Trans. abridg.* xii. 261. pl. 7. fig. F.

Alcyonium manus diaboli, *Linn. Syst.* 1296; *Esper, Alcyon.* 66. t. 21. figs. 1, 2, and t. 22.

Spongia cristata, *Ellis and Soland. Zooph.* 186; *Turt. Gmel.* iv. 659; *Turt. Brit. Faun.* 208; *Bosc. Vers*, iii. 172; *Stew. Elem.* ii. 434; *Montagu in Wern. Mem.* ii. 103; *Lamour. Cor. Flex.* 28, *Corall.* 156; *Gray, Brit. Pl.* i. 359; *Templeton in lib.* ix. 471; *Risso, L'Europ. Mérid.* v. 370.

Sp. papillaris, *Montagu in Wern. Mem.* ii. 90; *Grant in Edin. New Phil. Journ.* i. 343, and ii. 138. pl. 2, 21, 25, 26; *Roget, Bridgew. Treat.* i. 149. fig. 53.

Scypha papillaris, *Gray, Brit. Pl.* i. 357.

Halina papillaris, *Grant in Cyclop. Anat. and Phys.* i. 108. fig. 29; and *Outl. Comp. Anat.* 311. fig. 108.

Spongia compacta, *Sowerby's Brit. Misc.* 85. pl. 42; *Turt. Br. Faun.* 208.

Var. 4. *Johnst. Brit. Sp.* 114. t. 11. fig. 5.

*h, i, j.* Presented by G. Johnston, M.D.

*k.* Dublin Bay. Presented by G. Johnston, M.D.

16. HALICHONDRIA aculeata.

Halichondria aculeata, *Bean MSS.*; *Johnst. Brit. Sp.* p. 131. pl. 13. figs. 1–3, p. 247.

Inhab. ——?

*d.* ÆGAGROPILA.

17. HALICHONDRIA Fucorum.

Spongia Fucorum, *Esper, Spong.* tab. 49. figs. 1, 2.

Halichondria fucorum, *Johnst. Brit. Spon.* 112. t. 9–12. fig. 2, p. 246.

Spongia parasitica, *Montagu in Wern. Mem.* ii. 114; *Gray, Brit. Pl.* i. 360; *Grant in Edin. New Phil. Journ.* i. 348.

Halichondria parasitica, *Flem. Brit. Anim.* 521; *Thompson in Ann. Nat. Hist.* v. 254; *Bellamy's South Devon*, 268.

Halispongia parasitica, *Blainv. Actinol.* 532.

*a.* On Sertularia? "Ireland, W. Thompson, Esq." Presented by G. Johnston, M.D.

*b, c.* On Floridea. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.

*d.* On Fucus, *Johnst. Br. Sp.* t. 9. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.

*c*. On Sertularia falcata. Liverpool, J. Rylands, Esq. Presented by G. Johnston, M.D.
*f*. On Conferva. Craigorad, Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.
*g*. Crustaceous var. Presented by G. Johnston, M.D.
*h*. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

18. HALICHONDRIA incrustans.

Alcyonium incrustans, *Esper, Alcyon. t.* 15; *Lam. Anim. s. Vert.* ii. 397, 2nd edit. ii. 603; *Lamour. Cor. Flex.* 340, *Corall.* 244.
Halichondria incrustans, *Johnst. Brit. Spon.* p. 122. t. 12. fig. 3, and t. 13. fig. 5, p. 247.
Spongia fava, *Montagu in Wern. Mem.* ii. 115; *Gray, Brit. Pl.* i. 360.
Spongia panicea, *Grant in Edin. Phil. Journ.* xiii. 104, xiv. 118; and in *Edin. New Phil. Journ.* i. 347, ii. 128, 138. pl. 2. figs. 4, 24, 27–29, copied in *Blainv. Actinol.* pl. 94; not *Pallas.*
Halichondria panicea, *Flem. Brit. Anim.* 520; not *Johnst.*
Halispongia panicea, *Blainv. Actinol.* 532. not *robust.*
*b*. Branched. Presented by G. Johnston, M.D.
*c*. "Spongia fava, *Mont.*" Presented by G. Johnston, M.D.
*d*. "Hal. panicea, *Flem.*" Presented by G. Johnston, M.D.
*e*. "Hal. panicea, *Flem.*" *Brit. Sp.* t. 12. f. 3. Presented by G. Johnston, M.D.
*f*, *g*, *h*. Mass with dry mucus. Presented by G. Johnston, M.D.
*i*. Mass, washed. Presented by G. Johnston, M.D.
*j*. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

19. HALICHONDRIA saburrata.

Halichondria saburrata, *Johnst. Br. Sp.* p. 121. t. 11. fig. 3, p. 197–247.
*a*. *Br. Sp.* t. 11. f. 3. Presented by G. Johnston, M.D.
*b*. Presented by G. Johnston, M.D.
*c*. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

20. HALICHONDRIA ægagropila.

Halispongia ægagropila, *Scouler MSS.*
Halichondria ægagropila, *Johnst. Br. Sp.* p. 119. t. 11. f. 1, p. 248.
*a*. With animal matter, *Br. Sp.* t. 11. f. 1. Dublin, Dr. Scouler. Presented by G. Johnston, M.D.
*b*, *c*. Washed. Ireland? Presented by G. Johnston, M.D.
*d*. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

21. HALICHONDRIA seriata.

Spongia seriata, *Grant in Edin. Phil. Journ.* xiv. 116.
Halichondria seriata, *Johnst. Br. Sp.* p. 125. t. 14. fig. 2, p. 197–248.
*a.* Tenby, J. S. Bowerbank. Presented by G. Johnston, M.D.
*b. Br. Sp.* t. 14. f. 2. Tenby, J. S. Bowerbank. Presented by G. Johnston, M.D.
*c.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

22. HALICHONDRIA sanguinea.

Spongia sanguinea, *Grant in Edin. New Phil. Journ.* ii. 135, and 203. pl. 2. fig. 9.
Halichondria sanguinea, *Flem. Brit. Anim.* 521; *Johnst. Br. Sp.* 134. t. 14. fig. 3, p. 248.
Halispongia sanguinea, *Blainv. Actinol.* 532. pl. 94. fig. 9.
*a.* Dublin Bay, W. Thompson, Esq. Presented by G. Johnston, M.D.
*b.* Abnormal form. Presented by G. Johnston, M.D.
*c.* Berwick Bay. Presented by G. Johnston, M.D.
*d.* Dublin Bay. Presented by G. Johnston, M.D.
*e.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

*e.* CLIONA.

23. HALICHONDRIA? celata.

Halichondria? celata, *Johnst. Br. Sp.* p. 125. fig. 13, p. 197–248.
Var. 2. *Johnst. Brit. Sp.* 125.
Cliona celata, *Grant in Edin. New Phil. Journ.* i. 78, ii. 183. pl. 2. fig. 7 (the spiculum); *Flem. Brit. Anim.* 516; *Stark, Elem.* ii. 421; *Johnst. Brit. Zooph.* 305. pl. 42. figs. 5, 6; *Dujardin in Ann. des Sc. Nat. n. s.* x. 5.
La Clione cachée, *Blainv. Actinol.* 527. pl. 94. fig. 7. (The spiculum copied from Grant.)
*b, c, d.* Massive and rude. Cornwall, W. C. Peach, Esq. Presented by G. Johnston, M.D.
*a.* In holes in shells (Cliona cinerea). Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.
*e.* Mass in holes in stone. Devonshire. Presented by G. Johnston, M.D.
*f, g, h.* Mass in holes in stone. Presented by G. Johnston, M.D.
*i, j, k.* In holes in shells. Presented by G. Johnston, M.D.
*l.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

24. HALICHONDRIA hystrix, *Johnst. MSS.*

*a*. Small round mass. Presented by G. Johnston, M.D.
*b*. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

*f*. SUBERULA.

25. HALICHONDRIA coalita.

Spongia coalita, *Müll. Zool. Dan. Prod.* 256; *Zool. Dan.* iii. 71. t. 120; *Turt. Gmel.* iv. 662; *Montagu in Wern. Mem.* ii. 80; *Bosc. Vers*, iii. 177; *Lam. Anim. s. Vert.* ii. 382, 2nd edit. ii. 572; *Lamour. Cor. Flex.* 80, *Corall.* 184; *Parkins. Oryctol.* 47; *Grant in Edin. Phil. Journ.* xiv. 118, and in *Edin. New Phil. Journ.* ii. 123.
Tupha coalita, *Gray, Brit. Pl.* i. 355.
Halichondria coalita, *Flem. Brit. Anim.* 522; *Bellamy's South Devon*, 268; *Johnst. Br. Sp.* 135. t. 12. f. 1, p. 249.
Halispongia coalita, *Blainv. Actinol.* 532.
Spongia suberosa, *Esper, Spong.* t. 41.
*a*. *Br. Sp.* t. 12. f. 1. Frith of Forth? Presented by G. Johnston, M.D.
*b*. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

26. HALICHONDRIA virgultosa.

Spongia virgultosa, *Lam. Anim. s. Vert.* ii. 375, 2nd edit. ii. 565; *Lamour. Cor. Flex.* 66, *Corall.* 177; *Parkins. Oryctol.* 44.
Halichondria virgultosa, *Johnst. Brit. Sp.* 137. t. 15. figs. 1–3, pp. 197, 249.
*a*. *Brit. Sp.* t. 15. figs. 1 and 2. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.
*b*. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

27. HALICHONDRIA hirsuta.

Halichondria hirsuta, *Flem. Brit. Anim.* 522; *Johnst. Brit. Sp.* p. 138. t. 16. fig. 1, p. 249.
Inhab. deep water, Zetland, *Fleming*; Ireland, *Thompson.*
Mus. W. Thompson.

28. HALICHONDRIA domuncula.

Spongia suberea, *Montagu in Wern. Mem.* ii. 100.
Halichondria suberea, *Johnst. Brit. Sp.* p. 139. t. 12. figs. 5, 6, p. 141. fig. 14, and pp. 197, 249.

Sp. suberosa, *Gray, Br. Pl.* 361.
Halichondria suberica, *Flem. Brit. Anim.* 522; *Coldstream in Edinb. New Phil. Journ.* ix. 235. pl. 2. figs. 3–5; *Thompson in Ann. Nat. Hist.* v. 254; *Bellamy's South Devon*, 268.
Halispongia suberica, *Blainv. Actinol.* 532.
Alcyonium domuncula, *Olivi, Adriad.* 241; *Lam. Hist.* ii. 4, ed. 2. ii. 600.
Anthelia domuncula, *Blainv. Dict. Sci. Nat.* lx. 487.
Spongia domuncula, *Lamour. Cor. Flex.* 28.
Alcyonium bulbosum, *Esper, Alcyon.* p. 41. t. 12. figs. 1–6.
Alcyonium tuberosum, *Esper, Alcyon.* t. 13. figs. 1–6.
Alcyonium compactum, *Lam. Anim. s. Vert.* ii. 400, 2nd edit. ii. 606; *Lamour. Cor. Flex.* 354, *Corall.* 251; *Parkins. Oryctol.* 59.
*a*. On a shell. Presented by G. Johnston, M.D.
*b*. On a shell. *Brit. Sp.* t. 12. fig. 6. Presented by G. Johnston, M.D.
*c*. On a shell. *Brit. Sp.* t. 12. fig. 5. Presented by G. Johnston, M.D.
*d*. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.
*e*. In spirits. Aberystwyth. Presented by the Rev. J. Henslow.
*Var.* not on a shell.
Halichondria carnosa, *Johnst. Brit. Sp.* p. 146. t. 13. figs. 7, 8, p. 249.
H. suberea, var. *Bowerbank MSS.*
*a*, *e*. In spirits. Presented by G. Johnston, M.D.
*f*. Spicula of *e*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

29. HALICHONDRIA mammillaris.

Spongia mammillaris, *Müll. Zool. Dan.* iv. 44. tab. 158. figs. 3, 4; *Lamour. Cor. Flex.* 59, *Corall.* 173; *Thompson in Ann. Nat. Hist.* v. 254.
Halichondria mamillaris, *Johnston*, p. 142. t. 16. fig. 2, p. 249.
Spongia Penicillus, *Montagu in Wern. Mem.* ii. 93. pl. 13. fig. 7; *Flem. Brit. Anim.* 526; *Templeton in Mag. Nat. Hist.* ix. 471.
Spongia mammiferis, *Parkinson's Oryctology*, 43.
Spongia Imperati, *D. Chiaje, Anim. s. Vert. Nap.* iii. 114. tav. 37. figs. 18 and 23.
Tethya? penicilliformis, *Gray, Brit. Pl.* i. 362.
Inhab. ——?

30. HALICHONDRIA Ficus.

Alcionio tuberoso in forma di fico, *Imperat. Ital.* 641. fig. inf.
Sponge called the Sea Fig, *Ellis and Soland. Zooph.* 206. pl. 59. fig. 4.
Alcyonium Ficus, *Esper, Alcyon.* tab. 20. figs. 1–4; copied *Johnst. Brit. Sp.* t. 77. fig. 11; *Lamour. Cor. Flex.* 348; not *Pallas.*
Halichondria Ficus, *Johnst. Brit. Sp.* p. 144. t. 15. figs. 4 and 5, and p. 249.
Alcyonium ficiforme, *Lam. Anim. s. Vert.* ii. 394; edit. 2, ii. 599.
Spongia ficiformis, *Lamx. Cor. Flex.* 47; *Expos. Meth.* 29. t. 59. f. 4.
Choanites Ficus, *Mantell, Geol. Sussex,* 179.
*a.* Scarborough, *Brit. Sp.* t. 15. fig. 4. W. Bean, Esq. Presented by G. Johnston, M.D.
*b.* In primary state? Presented by G. Johnston, M.D.
*c.* Spicula in Canada balsam. Prepared by J. S. Bowerbank, Esq.
*d, e.* In spirits. "Mammaria," *Leach MSS.* Presented by J. Cranch, Esq.

31. HALICHONDRIA sevosa.

Halichondria sevosa, *Johnst. Brit. Sp.* p. 147. t. 16. figs. 3, 4, pp. 198, 249.
36 *a. Brit. Sp.* t. 13. fig. 3. Isle of Man. E. Forbes, Esq. Presented by G. Johnston, M.D.
*b.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

32. HALICHONDRIA maculans.

Halichondria maculans, *Johnst. MSS.*
*a.* On a shell. Berwick Bay. Presented by G. Johnston, M.D.
*b.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

*Species requiring further examination.*

33. HALICHONDRIA? aurea.

Spongia aurea, *Montagu in Wern. Mem.* ii. 86; *Flem. Brit. Anim.* 526.
Tupha aurea, *Gray, Brit. Pl.* i. 356.
Halichondria? aurea, *Johnst. Brit. Sp.* pp. 131, 248.
Inhab. ——?

34. HALICHONDRIA? Conus.

Spongia Conus, *Montagu in Wern. Mem.* ii. 85. pl. 10; *Flem. Brit. Anim.* 526.
Tupha conica, *Gray, Brit. Pl.* i. 356.
Halichondria? Conus, *Johnst. Brit. Sp.* pp. 132, 248.
Inhab. ——?

35. HALICHONDRIA? rigida.

Spongia rigida, *Montagu in Wern. Mem.* ii. 87. pl. 11. figs. 1, 2; *Flem. Brit. Anim.* 526.
Tupha rigida, *Gray, Br. Pl.* i. 356.
Halichondria? rigida, *Johnst. Brit. Sp.* pp. 132, 248.
Inhab. ——?

36. HALICHONDRIA? perlævis.

Spongia perlævis, *Montagu in Wern. Mem.* ii. 86; *Flem. Brit. Anim.* 526.
Tupha perlævis, *Gray, Brit. Pl.* i. 356.
Halichondria perlævis, *Johnst. Brit. Sp.* pp. 133, 248.
H. seriata var.?, *Johnst. loc. cit.* 248.
Inhab. ——?

## 5. BADIAGA.

Badiaga, *Buxbaum, Comm. Acad. Petrop.* ii. 1727, 343; *Spengler, Syst. Veg.* iv. 374, 1827.
Halichondria, sp. *Flem. B. A.* 524, 1828.
Spongilla, *Lam. Hist. Anim. s. Vert.* ii. 98, 1816, edit. 2, ii. 111; *Blainv. Man. Actinol.* 533–683; *Schweig. Handb.* 421; *Johnst. Brit. Sp.*; *Gray, Brit. Plants*, i. 353.
Spongia pars, *Linn. S. N.* 1299.
Cristatella, *Lamk. Syn.* 385, 1801 (Sponge not animal), not 1816; *Lamx. Bull. Soc. Phil.* ii. 182, 1812; not *Cuv. Tabl. Elem.* 1798.
Tupha, *Oken, Lehrb.* 1815; *Schweig. Handb.* 421; not *Gray*, 1820.
Ephydatia, *Lamour. Cor. Flex.* 2, 1816.

1. BADIAGA fluviatilis.

Spongia fluviatilis, *Pall. Elench.* 384; *Linn. Syst.* 1299; *Berk. Syn.* i. 213; *Turt. Gmel.* iv. 662; *Blumenb. Man.* 272; *Bosc. Vers*, iii. 178.
Badiaga fluviatilis, *Spreng. Syst. Veg.* iv. 374.
Ephydatia fluviatilis, *Lamour. Cor. Flex.* 6, *Corall.* 148.
Halichondria fluviatilis, *Flem. Brit. Anim.* 524.
Spongilla fluviatilis, *Johnst. Brit. Sp.* 159. t. 17, 18, p. 250.
Les Éponges d'eau douce, *Gervais in Ann. des Sc. Nat. n. s.* iv. 254.

Spongilla ou Éponge d'eau douce, *Dujardin in Ann. des Sc. Nat. n. s.* x. 4. pl. 1. figs. 1–4.

Cristatella, ou Éponges fluviatiles, *Lamx. Bull. Soc. Phil.* iii. 182.

Var. *a. Sponge crustaceous, massive and slightly lobed, or throwing up short branches. Johnst. Brit. Sp.* t. 17.

Spongia fluviatilis anfractuosa, perfragilis, ramosissima nostras, *Plunk. Phytog.* tab. 112. fig. 3.

Spongia fluviatilis ramosa fragilis, *Raii Hist. Pl.* iii. 16; *Syn.* i. 30. no. 6.

Fungus vel potius Spongia viridis, doliolis adnascenti similis, *Raii Syn.* i. 57. no. 11.

Spongia lacustris, *Linn. Flor. Suec.* 439. no. 1190; *Fl. Lapp.* 389; *Syst. Nat.* 1299; *Esper, Spong.* tab. 23 A. figs. 1–11; *Berk. Syn.* i. 213; *Turt. Gmel.* iv. 662; *Turt. Brit. Faun.* 209; *Stew. Elem.* ii. 435; *Bosc. Vers,* iii. 178; *Link in Ann. des Sc. Nat. n. s. Bot.* ii. 328.

Badiaga major, *Buxbaum, l. c.* 343.

Spongia friabilis, *Esper, Spong.* tab. 62. figs. 1–4; *Turt. Gmel.* iv. 662; *Bosc. Vers,* iii. 178.

Ephydatia lacustris, *Lamour. Cor. Flex.* 7, *Corall.* 149.

Ephydatia friabilis, *Lamour. Cor. Flex.* 6, *Corall.* 148.

Spongilla friabilis, *Lam. Anim. s. Vert.* ii. 100, 2nd edit. ii. 114; *Risso, L'Europ. Mérid.* v. 367; *Grant in Edinb. Phil. Journ.* ii. 138. pl. 2. fig. 1 (the spiculum), copied in *Blainv. Atlas,* pl. 94. fig. 1; *Blainv. Man.* 534; *Schweig. Handb.* 421; *Templeton in Mag. Nat. Hist.* ix. 470; *Stark, Elem.* ii. 442.

Spongilla pulvinata, *Lam. Anim. s. Vert.* ii. 99, 2nd edit. ii. 113; *Gray, Brit. Pl.* i. 353.

Spongilla fluviatilis, *Blainv. Actinol.* 534. pl. 92. fig. 6; *Hogg's Stockton,* 39; *Hogg in Ann. Nat. Hist.* i. 478, ii. 370, iii. 58 and 459, vi. 315; *Hogg in Trans. Linn. Soc.* xviii. 363, and *in Charlesworth's Mag. Nat. Hist.* iv. 259; *Johnst. Brit. Sp.* p. 159. pl. 17 & 18.

Spongilla lacustris, *Blainv. Actinol.* 534.

Var. *β. Erect and branched, plant-like. Johnst. Brit. Sp.* t. 18.

Spongia ramosa fluviatilis Newtoni, *Raii Hist. Pl.* i. 81; *Syn.* i. 30. no. 5.

Badiaga cinerea, *Buxbaum, l. c.* ii. 343.

Spongia fluviatilis?, *Linn. Fl. Suec.* 440. no. 1191.

Spongia lacustris, *Esper, Spong.* tab. 23. figs. 1, 2.

Spongia canalium, *Turt. Gmel.* iv. 662; *Bosc. Vers,* iii. 179.

Ephydatia canalium, *Lamour. Cor. Flex.* 6, *Corall.* 148; *Fleming in Edinb. Phil. Journ.* ii. 88; *Flem. Phil. Zool.* ii. 614. pl. 5. fig. 4.

Spongilla ramosa, *Lam. Anim. s. Vert.* ii. 100, 2nd edit. ii. 114; *Gray. Brit. Pl.* i. 353; *Dutrochet in "Ann. des Sc. Nat.* 1828, p. 205," *Bull. des Sc. Nat.* xvii. 156; *Stark, Elem.* ii. 442.

Badiaga minor, *Buxbaum, Comm. Petrop.* ii. 1727, 343; *Cent.* v. 12. t. 23. fig. 2.
Spongilla canalium, *Blainv. Actinol.* 534.
Spongilla lacustris, *Schweig. Handb.* 421.
Spongilla pulvinata, *Templeton in Mag. Nat. Hist.* ix. 470.
*a.* Northumberland. Presented by G. Johnston, M.D.
*b.*? Presented by G. Johnston, M.D.
*c.* Erect, branched. Goole, W. Bean, Esq. Presented by G. Johnston, M.D.
*d, e.* Massive. Presented by G. Johnston, M.D.
*f.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.
*g.* In spirits. Presented by J. E. Gray, Esq.

2. BADIAGA lacustris.

Spongilla lacustris, *Johnst. Brit. Sp.* pp. 162, 250.
Spongia lacustris, "*Don's Animals of Forfarshire*, 36."
Halichondria lacustris, *Flem. Brit. Anim.* 524.

## 6. SPONGIA.

Spongia pars, *Linn.*
Achilleum, *Schweig. Beobacht.* vii., *Handb.* 421; not *Oken.*
Spongia, *Lamk. Syst.* 1801; *Lamour. Bull. Soc. Phil.* 1812; *Flem. Brit. Anim.* 524, 1828; *Blainv. Man.* 529; *Johnst. Brit. Sp.* pp. 164, 250.

1. SPONGIA pulchella.

Spongia pulchella, *Sowerby, Brit. Misc.* 87. pl. 43; *Jameson in Wern. Mem.* i. 562; *Turt. Brit. Faun.* 208; *Montagu in Wern. Mem.* ii. 109; *Gray, Brit. Plants*, i. 359; *Flem. Brit. Anim.* 524; *Templeton in Mag. Nat. Hist.* ix. 471; *Bellamy's S. Devon*, 268; *Johnst. Brit. Sp.* p. 167. t. 19. figs. 1, 2 (p. 171. fig. 16?), p. 250.
*a.* Washed. Presented by G. Johnston, M.D.
*b.* Washed. *Brit. Sp.* t. 29. fig. 2. Berwick Bay? Presented by G. Johnston, M.D.

2. SPONGIA limbata.

Spongia limbata, *Montagu in Wern. Mem.* ii. 111. pl. 15. figs. 2, 3; *Gray, Brit. Pl.* i. 360; *Flem. Brit. Anim.* 526; *Johnst. Brit. Sp.* 168. t. 19. figs. 3, 4, 5, p. 250.
Spongia lobata, *Montagu in Wern. Mem.* ii. 85. pl. 9. fig. 1; *Flem. Brit. Anim.* 526.
Tupha lobata, *Gray, Brit. Pl.* i. 356.
*a. Var.* Berwick Bay. Presented by G. Johnston, M.D.

*b*. Small mass, washed. Devonshire. Presented by G. Johnston, M.D.
*c*, *d* & *e*. Mass, washed. Presented by G. Johnston, M.D.
*f*. Rounded mass with dry mucus. Presented by G. Johnston, M.D.

3. SPONGIA? lævigata.

Spongia lævigata, *Montagu in Wern. Mem.* ii. 95. pl. 16. fig. 4; *Flem. Brit. Anim.* 526; *Johnst. Brit. Sp.* pp. 170, 250.
Scypha lævigata, *Gray, Brit. Pl.* i. 358.
Inhab. ——?

*Dubia?*

? Spongia prolifera, *Grant, Edinb. Phil. Journ.* xiv. 116 (not *Solander and Ellis*); not described.
Inhab. ——?

7. DYSIDEA.

Duseideia, *Johnston*, 1842, p. 185.
Dysidea, *Johnston*, 1842, p. 251.

1. DYSIDEA fragilis.

Spongia fragilis, *Montagu in Wern. Mem.* ii. 114. pl. 16. figs. 1, 2; *Gray, Brit. Pl.* i. 360; *Flem. Brit. Anim.* 526; *Templeton in Mag. Nat. Hist.* ix. 471.
Duseideia fragilis, *Johnst. Brit. Sp.* p. 187. t. 13. fig. 6, and t. 14. fig. 4.
Dysidea fragilis, *Johnst. Brit. Sp.* 251.
Halichondria areolata, *Johnst. Brit. Sp.* 121. t. 13. fig. 4, pp. 197 and 247.
*a*, *b*, *c*, *d*. Washed. Presented by G. Johnston, M.D.
*e*, *f*, *g*, *h*, *i*, with the mucus preserved to dry. Presented by G. Johnston, M.D.
*j*, with mucus in spirits. Presented by G. Johnston, M.D.
*k*. "Halichondria areolata."
*l*. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.
*a*. "Hal. areolata." Portaferry, Strangford Lough, W. Thompson, Esq. Presented by G. Johnston, M.D.

2. DYSIDEA? papillosa.

Spongia suberea, *Johnst. in Mag. Nat. Hist.* vii. 491. fig. 60.
Duseideia papillosa, *Johnst. Brit. Sp.* t. 16. figs. 6, 7, pp. 190, 191. fig. 18.
Dysidea? papillosa, *Johnst. Brit. Sp.* 251.

*a.* On fragment of a shell. Scarborough. Presented by G. Johnston, M.D.

*b.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

8. HALISARCA.

Halisarca, *Dujard.* 184?; *Johnst. Brit. Sp.* 1847.

1. HALISARCA Dujardinii.

Halisarca, *Dujardin in Ann. des Sc. Nat. n. s.* x. 7. pl. 1. fig. 5.
Hal. Dujardinii, *Johnst. Brit. Sp.* p. 192. t. 16. fig. 8, p. 61. fig. 9, p. 251.
Inhab. ——.

## Order II. CALCAREA.

### Fam. 2. GRANTIADÆ.

9. GRANTIA.

Grantia, *Flem. Brit. An.* 524, 1828; *Johnst. Brit. Sp.* pp. 172, 251.
Leucalia, *Grant in Edinb. Encyclop.* xviii. 844.
Leuconia, *Grant, Outl. Comp. Anat.* 7.
Calcispongia, *Blainv. Dict. Sc. Nat.* lx. 1830; *Man.* 530.
Spongia pars, *Linn., Lam., Lamour.*
Scypha pars, *Gray, Brit. Pl.* i. 357.
Scyphia pars, *Schweig. Handb.* 422, 1820.

1. GRANTIA compressa.

Spongia compressa, *Fabric. Faun. Grœnl.* 448; *Turt. Gmel.* iv. 661; *Bosc. Vers*, iii. 176; *Jameson in Wern. Mem.* i. 562; *Lamour, Cor. Flex.* 48, *Corall.* 168; *Grant in Edinb. New Phil. Journ.* i. 166, and ii. 122, 127. pl. 2. figs. 11, 12, 13 and 23; copied in *Blainv. Atlas*, pl. 94; not *Esper.*
Spongia foliacea, *Montagu in Wern. Mem.* ii. 92. pl. 12; *Templeton in Mag. Nat. Hist.* ix. 471; not *Esper.*
Scypha foliacea, *Gray, Brit. Pl.* i. 358.
Grantia compressa, *Flem. Br. Anim.* 524; *Johnst. in Trans. Newc. Soc.* ii. 270; *Brit. Sp.* 174. t. 20. fig. 1, p. 251; *Bellamy's South Devon*, 268; *Hassall in Ann. Nat. Hist.* vi. 174.
Leuconia compressa, *Grant's Outl. Comp. Anat.* p. 7. fig. 3.
Calcispongia compressa, *Blainv. Actinol.* 531.
Spongia urceolus, *Müller, Zool. Dan.* iv. 42. t. 157. fig. 3, ? var.

*a–e.* *Brit. Sp.* t. 20. fig. 1. Berwick Bay. Presented by G. Johnston, M.D.
*f.* In spirits. Presented by G. Johnston, M.D.
*g.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

2. GRANTIA lacunosa.

Grantia lacunosa, *Bean MSS.*; *Johnst. Brit. Sp.* p. 176. t. 20. figs. 2, 3, p. 251.
*a.* *Brit. Sp.* t. 20. figs. 2, 3. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.
*b.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

3. GRANTIA ciliata.

Spongia ciliata, *Fabric. Faun. Grœnl.* 448; *Turt. Gmel.* iv. 657; *Bosc. Vers*, iii. 169; *Lamour. Cor. Flex.* 55, *Corall.* 151.
Spongia coronata, *Ellis and Soland. Zooph.* 190. pl. 58. figs. 8, 9, copied in *Esper, Spong.* tab. 61. figs. 5, 6; *Turt. Gmel.* iv. 657; *Turt. Brit. Faun.* 208; *Stew. Elem.* ii. 433; *Bosc. Vers*, iii. 169; *Montagu in Wern. Mem.* ii. 88; *Lamour. Cor. Flex.* 54, *Corall.* 171; *Lam. Anim. s. Vert.* ii. 370, 2nd edit. ii. 560; *Schweig. Beobacht.* 80. tab. 5. fig. 47, opt.!; *Grant in Edin. New Phil. Journ.* i. 170, ii. 122. pl. 2. figs. 17, 18; copied in *Blainv. Atlas*, pl. 94. figs. 17, 18.
Spongia panicea, *Esper, Spong.* tab. 18. figs. 1, 2.
Scypha coronata, *Gray, Brit. Pl.* i. 357.
Grantia coronata, *Hassall in Ann. and Mag. Nat. Hist.* vi. 174.
Grantia ciliata, *Flem. Brit. Anim.* 325; *Johnst. in Trans. Newc. Soc.* ii. 271; *Bellamy's South Devon*, 269; *Thompson in Ann. Nat. Hist.* v. 254; *Johnst.* p. 176. t. 20. f. 4, 5, t. 21. f. 6, 7, and p. 1. f. 1, p. 252.
Calcispongia ciliata, *Blainv. Actinol.* 531.
Spongia fistulosa, *Chiaje, Anim. Nap.* iii. 113. t. 37. f. 14, 15.
*a, b, c.* On Conferva. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.
*d.* With G. compressa. Presented by G. Johnston, M.D.
*e, f, g.* On Fucus. R. Orwell, Essex. Presented by W. B. Clarke, M.D.
*h, i, k.* In spirits. Presented by G. Johnston, M.D.
*l.* In spirits. Presented by G. Johnston, M.D.
*m.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

4. GRANTIA pulverulenta.

Spongia ananas var., *Montagu in Wern. Mem.* ii. 97. pl. 16. fig. 3.
Sp. pulverulenta, *Grant in Edin. New Phil. Journ.* i. 170.
Scypha ovata, *Gray, Brit. Pl.* i. 358.
Grantia pulverulenta, *Flem. Brit. Anim.* 525.; *Bellamy's South Devon*, 269; *Johnst. Brit. Sp.* 180, 252.
Spongia inflata, *Della Chiaje, Anim. s. Vert. Nap.* iii. p. 114. tav. 37. figs. 16, 17.
Var.? Spongia ananas, *Mont. Wern. Trans.* ii. 96. t. 16. figs. 1, 2; *Johnst. Brit. Sp.* 181.
Grantia ananas, *Fleming, B. A.* 525.
Inhab. —— ?

5. GRANTIA fistulosa.

Grantia fistulosa, *Johnst. Brit. Sp.* p. 181. t. 20. fig. 7, p. 252.
*a*. Portaferry, Ireland, W. Thompson. Presented by G. Johnston, M.D.
*b*. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

6. GRANTIA botryoides.

Spongia botryoides, *Ellis and Soland. Zooph.* 190. pl. 58. figs. 1–4; copied in *Esper, Spong.* tab. 61. figs. 1–4; *Turt. Gmel.* iv. 660; *Turt. Brit. Faun.* 209; *Stew. Elem.* ii. 434; *Bosc. Vers*, iii. 173; *Montagu in Wern. Mem.* ii. 89; *Lamour. Cor. Flex.* 81, *Corall.* 184; *Lam. Anim. s. Vert.* ii. 382, 2nd edit. ii. 573; *Templeton in Mag. Nat. Hist.* ix. 471.
Sp. complicata, *Montagu in Wern. Mem.* ii. 97. pl. 9. figs. 2, 3; *Gray, Brit. Pl.* i. 358; *Grant in Edin. New Phil. Journ.* i. 169.
Spongia confervicola, *Templeton in Mag. Nat. Hist.* ix. 470. f. 67.
Scypha botryoides, *Gray, Brit. Pl.* i. 357.
Grantia botryoides, *Flem. Brit. Anim.* 525; *Johnst. in Trans. Newc. Soc.* ii. 270; *Bellamy's South Devon*, 268; *Johnst. Brit. Sp.* p. 179. t. 21. figs. 1–5, p. 252.
Calcispongia botryoides, *Blainv. Actinol.* 531.
*a & g*. *Br. Sp.* t. Bangor, W. Thompson, Esq. Presented by G. Johnston, M.D.
*b*. On slate, *Br. Sp.* t. 21. f. 3. Holy Island. Presented by G. Johnston, M.D.
*c, d*. On slate. Holy Island. Presented by G. Johnston, M.D.
*e, f*. On Fucus. Berwick Bay. Presented by G. Johnston, M.D.
*g*. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

7. GRANTIA nivea.

Spongia nivea, *Grant in Edin. Phil. Journ.* xiv. 339; and in *Edin. New Phil. Journ.* i. 168, and ii. 139. pl. 1. figs. 14–16; copied in *Blainv. Actinol.* pl. 94.
Grantia nivea, *Flem. Brit. Anim.* 525; *Johnst. Brit. Sp.* p. 182. pl. 21. fig. 8, p. 252.
Calcispongia nivea, *Blainv. Actinol.* 531.
*a & b.* Presented by G. Johnston, M.D.
*c.* Var. cristata, *Br. Sp.* t. 20. f. 6. Mr. M'Calla. Presented by G. Johnston, M.D.
*d.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

8. GRANTIA coriacea.

Spongia coriacea, *Montagu in Wern. Mem.* ii. 116; *Gray, Brit. Pl.* i. 361; *Flem. Brit. Anim.* 526:
Grantia multicavata, *Bean MSS.*
Grantia coriacea, *Johnst. Brit. Sp.* p. 183. t. 21. fig. 9, p. 252.
*a, b. Br. Sp.* t. 21. f. 9. Berwick Bay. Presented by G. Johnston, M.D.
*c.* In spirits. Presented by G. Johnston, M.D.
*d.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## APPENDIX.

*Foreign Specimens accidentally introduced into the Fauna.*

Spongia prolifera, *Solander and Ellis*, t. ; *Templeton, Mag. Nat. Hist.* ix. 472; *Johnst. Br. Sp.* 170.
Inhab. Belfast, from a ship.

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NATU

# LIST

OF THE

# SPECIMENS

OF

# BRITISH ANIMALS

IN

## THE COLLECTION

OF THE

# BRITISH MUSEUM.

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## PART III.—BIRDS.

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PRINTED BY ORDER OF THE TRUSTEES.

LONDON, 1850.

LONDON:
PRINTED BY EDWARD NEWMAN,
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# INTRODUCTION.

THE principal object of the present Catalogue has been to give a complete list of *all* the birds that have been recorded as found in Great Britain, indicating at the same time those species that are contained in the collection, and pointing out their peculiarities as regards age, sex, habitat, and the source from whence the specimens were obtained, which are mentioned after the specific name and its synonyma, while the localities of those species not at present contained in the collection are also recorded.

Those specimens which have been presented to the Museum have the name of the donor; and in general the collection from whence the specimen has been purchased is also marked, as it often gives some authenticity to its history. The skeletons and breast-bones, &c., which are contained in the collection, are also given under the separate species to which they belong. In the adoption of the generic and specific names, it has been thought

right to use, wherever it was possible, that which was first applied to the species. Great attention has been paid to consult the original authority, to know the type, and select the name which appeared to be the most ancient, and reference is made to the work in which, and the *date* when, each genus and its synonyma were respectively published.

Under each species there have been appended all the names under which the bird has been mentioned since the establishment of the Linnean system and nomenclature, and references are given to the works in which these were first used, and especially to the various works treating on British animals in which they are mentioned, as well as to the various other works on Ornithology which it was thought might prove of use in establishing the identity of species found in other parts of the world.

These are followed by a reference to a few of the best of the original figures of the species.

This Catalogue has been prepared by Mr. George Robert Gray, the Senior-assistant in the department.

JOHN EDWARD GRAY.

*British Museum,*
*June 1st*, 1850.

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| *Indigenous.* | *Seasonal Visitors.* | *Occasional Visitors.* |
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| *Indigenous.* | *Seasonal Visitors.* | *Occasional Visitors.* |
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| *Indigenous.* | *Seasonal Visitors.* | *Occasional Visitors.* |
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19. Oxylophus glandarius, 128.
20. Ectopistes migratorius, 131.
21. Turnix africanus, 139.
22. Eupodotis undulata, 146.
23. Psophia crepitans, 158.
24. Botaurus lentiginosus, 164.
25. Nycticorax violacea, App.
26. Tringa pectoralis, 183.
27. Tringa Schinzii, 183.
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29. Plectropterus gambensis, 202.
30. Chenalopex ægyptiaca, 202.
31. Bernicla ruficollis, 204.
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36. Clangula albeola, 226.
37. Mergus cucullatus, 233.
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39. Thalassidroma Bulweri, 249.
40. Thalassidroma oceanica, 250.
41. Rhodostethia Rossii, 254.
42. Larus atricilla, 259.
43. Larus capistratus, 260.
44. Larus Bonapartei, 261.
45. Xema Sabini, 262.
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47. Anöus stolidus, 271.
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*Introduced Species.*

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2. Phasianus colchicus, 134.
3. Gallus Bankiva, var., 135.
4. Meleagris gallopavo, 136.
5. Numida meleagris, 136.
6. Caccabis rufa, 137.
7. Caccabis petrosa, 137.
8. Ortyx virginiana, 140.
9. Anser cygnoides, 207.
10. Aix sponsa, 217.
11. Cairina moschata, 219.

*Doubtful Species.*

1. Tetrao hybridus, 141.
2. Gallinago Sabini, 190.
3. Gallinago Brehmii, 191.
4. Cygnus immutabilis, 209.
5. Querquedula bimaculata, 215.
6. Nyroca ferinoïdes, 223.
7. Uria ringvia, 244.

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| | |
|---|---|
| Indigenous Species ..... | 114 |
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| Occasional Visitors ..... | 104 |
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# APPENDIX.

Page 43, *add*

Upupa vulgaris, *Pall.*
Upupa macrorhyncha, *Landb.*

Page 48.

*Calamodyta Cetti ;* inserted on the authority of Temminck. An example of this species, however, is not known in any British collection.

Page 50, *add*

CALAMODYTA ARUNDINACEA. The Reed Thrush.

Motacilla arundinacea, *Linn. S. N.* i. p. 296.
Sylvia turdoïdes, *Meyer, Vög. Liv. and Estland.* p. 116.
Turdus arundinaceus, *Gmel. S. N.* i. p. 834.
Acrocephalus lacustris, *Naum.*
Salicaria turdina, *Schleg.*
Thrush Nightingale, *Hancock, Ann. & Mag. Nat. Hist.* 1847, p. 135 ; *Zoologist*, 1847, p. 1875.

(Swalwell, near Newcastle, and Northamptonshire ?)

Page 55.

SYLVIA HIPPOLAIS. The Lesser Pettichaps.

Motacilla hippolais, *Linn. S. N.* i. p. 330.
Sylvia hippolais, *Lath. Ind. Orn.* ii. p. 507 ; *Temm.* (not *Penn.*) *Man. d Orn.* p. 222 ; *Plomley, Zoologist*, 1848, p. 2228.
Melodious Willow Wren, *Plomley.*

(Erythrone, near Dover).

Page 132.

The late Mr. Donovan, in his work on 'British Birds,' has figured a species of Turtle, under the name of *Columba albonotata*, pl. 149. Latham, in his 'History of Birds,' has referred to it as a variety of Common Turtle. The example from which the figure was made, is said to have been shot in Buckinghamshire.

Page 165, *add* (on the authority of Mr. Selby),

NYCTICORAX VIOLACEA. The Cayenne Night-Heron.

Ardea violacea, *Linn. S. N.* i. p. 238.
Ardea cayanensis, *Lath. Ind. Orn.* ii. p. 680 (?).
Ardea callocephala, *Wagl. Syst. Av.*
Nycticorax cayanensis, *Selby, Brit. Birds* (1833), ii. p. 43.
Cayenne Night Heron, *Selby, Brit. Birds*, ii. p. 43.
Yellow-crowned Heron, *Penn. Arct. Zool.* ii. p, 352.
(Yarmouth).

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## CORRECTIONS.

Page 12.

*Erase* from *Falco gyrfalco*,—*a*, *b*. Iceland. From Mr. Leadbeater's collection.

Page 41.

*Ceryle alcyon*, *for Ann. & Mag. Nat. Hist.* (1847), *read* (1844), p. 430 (1845), p. 69, and (1846), p. 313.

Page 44.

*Sitta europæa*. If considered distinct from the Linnean species, should be called *S. cæsia*.

Page 51 & 52.

*For* Staparola, *read* Sterparola.

Page 181. To the synonyma of Tringa, *add*

Schæniclus, *Mœhr.* (1752).
Limicola, *Koch*, (1815).
Pelidna, *Cuv.* (1817).

# CATALOGUE

OF

# BRITISH BIRDS.

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## Class AVES.

### Order I. ACCIPITRES.

Accipitres, *Linn.* (1735); *Mœhr.* (1752); *Lath.* (1790); *Cuv.* (1795—1796).
Dermatopodes, *Mœhr.* (1752).
Plumipedes, pt. *Schæff.* (1774).
Fissipedes anisodactyles, aduncirostres, *Schæff.* (1774).
Retipedes, pt. *Scop.* (1777).
Rapaces, *Scop.* (1777); *Temm.* (1815); *Ranz.* (1823).
Raptatores, *Illig.* (1811).
Raptores, *Vigors* (1826).
Raptrices, *Macgill.* (1840).

#### Sub-Order 1. ACCIPITRES DIURNI.

Accipitres diurni, *Vieill.* (1816); *Cuv.* (1817).
Nudicolles—Plumicolles—Grallæ pt.—Brevirostres, *Cuv.* (1799—1800).
Vulturini—Accipitrini, *Illig.* (1811).
Grallatores pt.—Uncirostres pt. *Vieill.* (1816).
Diurni, *Ranz.* (1823).

# Fam. I. VULTURIDÆ.

## i. *Vulturinæ.*

### 1. GYPS.

Gyps, *Sav. Descr. de l'Egypte, Hist. Nat.* i. p. 71 (1809).

Gyps fulvus. The fulvous Vulture.

Vultur fulvus, *Gmel. S. N.* i. p. 249; *Temm. Man. d'Orn.* 1815, p. 3; *Brehm, Vög. Deuts.* i. p. 9; *Naum. Vög. Deuts.* (1822), i. p. 162, t. 2; *Pr. Bonap. Geogr. Comp. List of B.* p. 2; *Keys. & Bl. Wirbelth. Eur.* p. 26; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 12. *Thomps. Ann. & Mag. Nat. Hist.* xv. 1845, p. 308.
Vultur leucocephalus, *Meyer, Taschenb. Deuts.* i. p. 7.
Vultur albicollis, *Linderm. Isis* (1843), p. 324.
Vultur percnopterus, *Daud. Tr. d'Orn.* ii. p. 13.
Vultur vulgaris, *Daud. Tr. d'Orn.* ii. p. 16.
Vultur trincalos, *Bechst. Naturg. Deuts.* ii. p. 479.
Vultur persicus, *Pall. Zoogr.* i. p. 377.
Vultur indicus, *Temm. Pl. col.* 26.
Vultur Kolbii, *Daud. Tr. d'Orn.* ii. p. 15.
Gyps vulgaris, *Sav. Descr. d'Egypte, Hist. Nat.* i. p. 71.
Gyps fulvus, *G. R. Gray, List of Gen. of B.* (1840), p. 1; *Gen. of B.* i. p. 5.
The Griffon Vulture, *Yarr. Brit. B.* 2 edit. i. p. 1, fig.; *Newm. Zool.* 1845, p. 986, fig.

*Pl. enl.* 426; *Levaill. Ois. d'Afr.* t. 10; *Gould, B. of Eur.* pl. 1.

(Rocks near Cork Harbour).

## ii. *Neophroninæ.*

### 1. NEOPHRON.

Neophron, *Sav. Descr. de l'Egypte, Hist. Nat.* i. p. 77 (1809)
Percnopterus, *Cuv. Reg. An.* (1817), i. p. 307.

NEOPHRON PERCNOPTERUS. The Alpine Vulture.

Vultur percnopterus, *Linn. S. N.* i. p. 123.
Vultur stercorarius, *Lapeyr. Neue Schwed. Abh.* iii. p. 100.
Vultur leucocephalus, *Briss. Orn.* i. p. 466.
Vultur fuscus, *Bodd. Tabl. des Pl. enl. de D'Auben.* p. 28.
Vultur ginginianus, *Daud. Tr. d'Orn.* ii. p. 20.
Vultur albus, *Daud. Tr. d'Orn.* ii. p. 20.
Vultur meleagris, *Pall. Zoogr.* i. p. 377, t. 14.
Cathartes percnopterus, *Temm. Man. d'Orn.* (1815) p. 5; *Brehm, Vög. Deuts.* i. p. 5, t. 1, f. 1; *Naum. Vög. Deuts.* (1822) i. p. 170, t. 3; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 11.
Percnopterus ægyptiacus, *Steph. Gen. Zool.* xiii. p. 7.
Neophron percnopterus, *Sav. Descr. de l'Egypte, Hist. Nat.* p. 16; *Macgill. Hist. Brit. B.* iii. p. 166; *Jenyns, Man. B. Vert. An.* p. 79; *Eyton, Cat. Brit. B.* p. 1; *Pr. Bonap. Geogr. Comp. List of B.* p. 1; *Keys. & Bl. Wirbelth. Eur.* p. 26.
Vultur albicans, *Meisner.*
Egyptian Vulture, *Eyton, Hist. R. Brit. B.* p. 1; *Yarr. Brit. B.* 2 edit. i. p. 6, fig., & p. 10, fig.
Alpine Vulture, *Bew. Brit. B.* (1832) i. p. 15.

*Pl. enl.* 427, 429; *Jard. & Selby, Ill. Orn.* pl. 33; *Gould, B. of Eur.* pl. 3; *Levaill. Ois. d'Afr.* t. 14.

(Shores of the Bristol Channel).

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## FAM. II. FALCONIDÆ.

### i. *AQUILINÆ.*

### 1. AQUILA.

Aquila, *Mœhr. Av. Gen.* p. 49 (1752); *Briss. Orn.* i. p. 419 (1760).
Aëtos, *Nitzsch, Pterylog.* p. 31 (1840).
Onichaëtus, *Kaup, Classif. der Säug. und Vög.* p. 120 (1844).
Ictinaëtus, *Jerd. Madr. Journ. Lit. and Sci.* p. 117 (1844).
Uroaëtus, *Kaup, Classif. der Säug. und Vög.* p. 121 (1844).
Pteroaëtus, *Kaup, Classif. der Säug. und Vög.* p. 120 (1844).
Hieraëtus, *Kaup, Classif. der Säug. und Vög.* p. 120 (1844).
Heteropus, *Hodgs. Journ. A. S. B.* (1842) p. 881.
Neopus, *Hodgs. Gray, Zool. Misc.* (1844) p. 81.
Tolmaëtus, *Blyth, Journ. A. S. B.* (1845) p. 5.
Eutolmaëtus, *Blyth.*

## a. AQUILA.

### 1. AQUILA CHRYSAËTOS. The golden Eagle.

Aquila chrysaëtos, *Pall. Zoogr.* p. 341; *Flem. Brit. An.* p. 52; *Jenyns, Man. B. Vert. An.* p. 80; *Brehm, Vög. Deuts.* i. p. 21; *Macgill. Hist. Brit. B.* iii. p. 204; *Eyton, Cat. Brit. B.* p. 2; *Pr. Bonap. Geogr. Comp. List of B.* p. 2; *Keys. & Bl. Wirbelth. Eur.* p. 30; *G. R. Gray, Gen. of B.* i. p. 13.
Falco chrysaëtos, *Linn. S. N.* i. p. 125.
Falco melanaëtos, *Linn. S. N.* i. p. 124.
Falco fulvus, *Linn. S. N.* i. p. 125; *Naum. Vög. Deuts.* (1822) i. p. 208, t. 8, 9.
Falco canadensis, *Linn. S. N. Ed.* 10, p. 88.
Aquila nobilis, *Pall. Zoogr.* i. p. 338, t. 8.
Falco niger, *Gmel. S. N.* i. p. 259.
Falco americanus, *Gmel. S. N.* i. p. 257.
Falco melanonotus, *Lath. Ind. Orn.* i. p. 16.
Aquila fulva, *Meyer, Taschenb. Deuts.* i. p. 14; *Kaup, Classif. der Säug. und Vög.* p. 121; *Brehm, Vög. Deuts.* i. p. 29; *Schleg. Rev. Crit. des Ois. d' Eur.* p. 6.
Falco regalis, *Temm. Man. d.Orn.* 1815, p. 10.
Aquila regia, *Less. Tr. d'Orn.* p. 36.
Aquila daphænia, *Hodgs. Gray, Zool. Misc.* (1844) p. 81.
Aquila melanaëtus, *Brehm, Vög. Deuts.* i. p. 20.
The golden Eagle, *Bew. Brit. B.* (1797) i. p. 5, fig.; *Penn. Brit. Zool.* (1812) i. p. 197; *Mont. Orn. Dict.; Selby, Brit. Orn.* i. p. 4; *Yarr. Brit. B.* 2 edit. i. p. 11, fig.
The Ring-tailed Eagle, *Bew. Brit. B.* (1797) i. p. 7, fig.; *Mont. Orn. Dict.*
Black Eagle, *Penn. Brit. Zool.* (1812) i. p. 202.

*Pl. enl.* 409, 410; *Brown, Illust.* pl. 2; *Gould, B. of Eur.* pl. 6; *Edwards's Birds*, pl. 1.

*a*, *b*. Orkney. From Mr. Bullock's Museum.
*c*. Orkney. Young. From Mr. Bullock's Museum.
*d*, *e*. Chicks. From Mr. Bullock's Museum.

### 2. AQUILA NÆVIA. The rough-footed Eagle.

Aquila nævia, *Meyer, Taschenb. Deuts.* i. p. 19; *Brehm, Vög. Deuts.* i. p. 26; *Kaup, Isis* (1847) p. 249; *Pr. Bonap. Geogr. Comp. List of B.* p. 2; *Keys. & Bl. Wirbelth. Eur.* p. 30; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 7; *Dairs, Ann. & Mag. N. Hist.* 1845, p. 351; *G. R. Gray, Gen. of B.* i. p. 13

Falco nævius, *Gmel. S. N.* i. p. 258; *Temm. Man. d'Orn.* 1815, p. 14; *Naum. Vög. Deuts.* (1822) i. p. 217, t. 10, 11.
Falco maculatus, *Gmel. S. N.* i. p. 258.
Aquila pomarina, *Brehm, Vög. Deuts.* i. p. 27.
Aquila planga, *Vieill. Encyc. Méth.* p. 1190.
Aquila bifasciata, *Hornsch.*
Aquila melanaëtos, *Sav. Descr. de l'Egypte, Hist. Nat.* i. p. 84.
Aquila clanga, *Pall. Zoogr.* i. p. 351.
Aquila vittata, *Hodgs. Gray, Zool. Misc.* (1844) p. 81.
Spizaëtus fuscus, *Vieill. N. Dict. d'Hist. Nat.* xxxii. p. 60.
The Spotted Eagle, *Yarr. Brit. B.* 2 edit. i. p. 10,* fig.; *Newm. Zool.* 1846, p. 1208, fig.; *Sav. Descr. d'Egypte, Hist. Nat. Ois.* t. 1, *et* t. 2, f. 1; *Gould, B. of Eur.* pl. 8.

(Near Youghal, Ireland).

## 2. PANDION.

Pandion, *Sav. Descr. de l'Egypte, Hist. Nat.* i. p. 95 (1809).
Triorches, *Leach, Syst. Cat. Mam. & B. B. M.* p. 10 (1816).
Balbusardus, *Flem. Brit. An.* p. 51 (1828).
Ichthyaëtus, *Lafr. Rev. Zool.* (1839) p. 196.
Polioaëtus, *Kaup, Isis* (1847), p. 270.

### a. PANDION.

#### 1. PANDION HALIAËTUS. The Osprey.

Pandion haliaëtus, *Cuv. Règ. An.* (1817) i. p. 316; *Kaup, Mus. Senckenb.* (1845) p. 261; *Macgill. Hist. Brit. B.* iii. p. 239; *Eyton, Cat. Brit. B.* p. 2; *Pr. Bonap. Geogr. Comp. List of B.* p. 3; *Keys. & Bl. Wirbelth. Eur.* p. 29; *Schleg. Rev. Crit. des Ois. d' Eur.* p. 8; *G. R. Gray, Gen. of B.* i. p. 17.
Falco haliaëtus, *Linn. S. N.* i. p. 129; *Naum. Vög. Deuts.* (1822) i. p. 241, t. 16.
Aquila haliaëtus, *Meyer, Taschenb. Deuts.* i. p. 23; *Jenyns, Man. B. Vert. An.* p. 81.
Pandion fluvialis, *Sav. Descr. de l'Egypte, Hist. Nat.* i. p. 96.
Aquila balbuzardus, *Dum. Dict. des Sci. Nat.* i. p. 351.
Pandion ichthyaëtus, *Kaup, Classif. der Säug. und Vög.* p. 122.
Pandion alticeps, *Brehm, Vög. Deuts.* i. p. 33.
Pandion planiceps, *Brehm, Vg. Deuts.* i. p. 33, t. 2, f. 3.
Accipiter haliaëtus, *Pall. Zoogr.* i. p. 355.
Pandion indicus, *Hodgs. Journ. A. S. B.* (1837) p. 366.

Falco carolinensis, *Gmel. S. N.* i. p. 371.
Falco cayanensis, *Gmel. S. N.* i. p. 164.
Falco arundinaceus, *Gmel. S. N.* i. p. 263.
Falco piscator, *Briss. Orn.* i. p. 361.
Aquila piscatrix, *Vieill. Ois. de l'Amer. Septr.* t. 4.
Pandion americanus, *Vieill. Gal. des Ois.* t. 11; *Swains. Class. of B.* ii. p. 207.
Aquila (Pandion) haliaëta, *Rich. and Sw. Faun. Bor. Amer.* ii. p. 20.
Balbusardus haliætus, *Flem. Brit. An.* p. 51; *Pl. enl.* 414.
Triorches fluvialis, *Leach, Syst. Cat. Mam. & Birds, B. M.* p. 10.
The Osprey, *Bew. Brit. B.* (1797) i. p. 13; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 214; *Selby, Brit. Orn.* i. p. 12.
The Osprey or Fishing Hawk, *Yarr. Brit. B.* 2 edit. i. p. 25, fig.

*a.* Devonshire. From Col. Montagu's collection.
*b.* Lincolnshire. Presented by the Hon. C. Pelham.

## 3. HALIAËTUS.

Haliaëtus, *Sav. Descr. de l'Egypte, Hist. Nat.* i. p. 85 (1809)
Thalassoaëtus, *Kaup, Classif. der Säug. und Vög.* p. 123 (1844).

### 1. Haliaëtus albicilla. The cinereous Eagle.

Haliaëtus albicilla, *Leach, Syst. Cat. Mam. & B. B. M.* p. 9; *Kaup, Isis* (1847), p. 275; *Macgill. Hist. Brit. B.* iii. p. 221; *Brehm, Vög. Deuts.* i. p. 14, t. iii. f. i.; *Pr. Bonap. Geogr. Comp. List. of B.* p. 3; *Keys. & Bl. Wirbelth. Eur.* p. 30; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 8; *G. R. Gray, Gen. of B.* i. p. 17.
Vultur albicilla, *Linn. S. N.* i. p. 123.
Falco ossifraga, *Linn. S. N.* i. p. 124.
Falco melanaëtos, *Linn. S. N.* i. p. 124.
Aquila ossifraga, *Pall. Zoogr.* i. p. 348.
Falco albicaudus, *Gmel. S. N.* i. p. 258.
Haliaëtus nisus, *Sav. Descr. de l'Egypte, Hist. Nat.* i. p. 86; *Leach, Syst. Cat. Mam. & B. B. M.* p. 9.
Falco hinnularius, *Lath. Ind. Orn.* i. p. 15.
Aquila albicilla, *Pall. Zoogr.* i. p. 345; *Swains. Classif. of B.* ii. p. 207; *Flem. Brit. An.* p. 53; *Jenyns, Man. B. Vert. An.* p. 80.
Haliaëtus orientalis, *Brehm, Vög. Deuts.* i. p. 15.
Haliaëtus borealis, *Brehm, Vög. Deuts.* i. p. 15.
Haliaëtus islandicus, *Brehm, Vög. Deuts.* i. p. 16.
Haliaëtus grœnlandicus, *Brehm, Vög. Deuts.* i. p. 16.
Falco albicilla, *Gmel. S. N.* i. p. 253; *Naum. Vög. Deuts.* (1822) i. p. 224, t. 12, 13, 14.

Haliaëtus pygargus, *Eyton, Cat. Brit. B.* p. 3.
The White-tailed Eagle, *Bew. Brit. B.* (1797) i. p. 9, fig.; *Yarr. Brit. B.* 2 edit. i. p. 20, fig.
The Sea Eagle, *Bew. Brit. B.* (1797) i. p. 11, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 305, pl. xvii.
Cinereous Eagle, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 209, pl. xviii.; *Selby, Brit. Orn.* i. p. 9.

*Pl. enl.* 112, 415; *Gould, B. of Eur.* pl. 10; *Kittl. Kupf. Nat. der Vog.* t. 2, f. 2.

*a.* Shropshire, &c. Female adult. From Mr. Bullock's Museum.
*b.* Shropshire. Young female.
*c.* Kent. Young male. From Col. Montagu's collection.
*d.* Orkneys. Very young. From Mr. Bullock's Museum.

## ii. *Buteoninæ.*

### 1. BUTEO.

Buteo, *Cuv. Anat. Compar.* i. *Tab. Sec. Cl. des Ois.* (1799—1800).
Craxirex, *Gould, Zool. Beagle*, p. 22 (1838).
Pœcilopternis, *Kaup, Isis* (1847), p. 329.
Tachytriorchis, *Kaup, Classif. der Säug. und Vög.* p. 123 (1844).
Gypsoictinia, *Kaup, Mus. Senckenb.* (1845) p. 261.
Leucopternis, *Kaup, Isis (1847)* p. 210.

### a. BUTEO.

#### 1. BUTEO VULGARIS. The common Buzzard.

Buteo vulgaris, *Bechst. Taschenb. Deuts.* i. p. 15; *Leach, Syst. Cat. Mam. & B. B. M.* p. 10; *Kaup, Isis* (1847), p. 338; *Flem. Brit. An.* p. 54; *Pr. Bonap. Geogr. Comp. List. of B.* p. 3; *Keys. & Bl. Wirbelth. Eur.* p. 30; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 9; *Jenyns, Man. B. Vert. An.* p. 87; *Eyton, Cat. Brit. B.* p. 4; *G. R. Gray, Gen. of B.* i. p. 11.
Falco buteo, *Linn. S. N.* i. p. 127; *Temm. Man. d'Orn.* 1815, p. 20; *Naum. Vög. Deuts.* (1822) i. p. 346, t. 32, 33.
Falco glaucopis, *Merr. Beitr.* ii. t. 7.
Buteo mutans, *Vieill. N. Dict. d'Hist. Nat.* iv. p. 469; *Faun. Franc. Ois.* t. 8, f. 2.
Buteo fasciatus, *Vieill. N. Dict. d'Hist. Nat.* iv. p. 474; *Faun. Franc. Ois.* t. 8, f. 1.

Falco variegatus, *Gmel. S. N.* i. p. 267.
Falco versicolor, *Gmel. S. N.* i. p. 272.
Falco cinereus, *Gmel. S. N.* i. p. 267.
Falco obsoletus, *Gmel. S. N.* i. p. 268.
Buteo albus, *Daud. Tr. d'Orn.* ii. p. 155.
Accipiter buteo, *Pall. Zoogr.* i. p. 362.
Falco pogana, *Savi, Orn. Tosc.* iii. p. 197; *Stor. deg. Ucc.* t. 38.
Buteo septentrionalis, *Brehm, Vög. Deuts.* i. p. 42.
Buteo medius, *Brehm, Vög. Deuts.* i. p. 43, t. 3, f. 3.
Buteo murum, *Brehm, Vög. Deuts.* i. p. 44.
Buteo vulgaris, japonicus, *Temm. et Schl. Faun. Jap.* t. 6?
Buteo fuscus, *Macgill. Hist. Brit. B.* iii. p. 183.
The Common Buzzard, *Bew. Brit. B.* (1797) i. p. 15, fig.; *Mont. Orn. Dict.*; *Selby, Brit. Orn.* i. p. 18; *Yarr. Brit. B.* 2 edit. i. p. 82, fig.
Buzzard, *Penn. Brit. Zool.* (1812) i. p. 232, pl. xxvii.
*Pl. enl.* t. 419; *Gould, B. of Eur.* pl. 14.

*a.* Devonshire. Male.
*b.* Devonshire. Male. Presented by G. Leach, Esq.
*c.* Great Britain.
*d.* Devonshire. Chick. Presented by G. Leach, Esq.
*e.* Sternum. England.
*f.* Sternum. England. Presented by John Ray, Esq.

## 2. ARCHIBUTEO.

Archibuteo, *Brehm, Isis* (1828), p. 1269.
Triorchis, *Kaup, Naturl. Syst. Eur. Thier.* p. 84 (1829).
Butaëtes, *Less. Tr. d'Orn.* p. 83 (1831).
Butaquila, *Hodgs. Gray's Zool. Misc.* (1844) p. 81.
Hemiaëtus, *Hodgs. Gray's Zool. Misc.* (1844) p. 81.

### 1. ARCHIBUTEO LAGOPUS. The rough-legged Falcon.

Archibuteo lagopus, *G. R. Gray, List Gen. of Birds*, p. 3; *Kaup, Classif. der Säug. und Vög.* p. 123; *G. R. Gray, Gen. of B.* i. p. 12.
Falco lagopus, *Brün. Orn. Bor.* p. 4; *Temm. Man. d'Orn.* 1815, p. 22; *Naum. Vög. Deuts.* (1822) i. p. 359, t. 34.
Falco plumipes, *Daud. Tr. d'Orn.* ii. p. 163.
Falco sclavonicus, *Lath. Ind. Orn.* i. p. 26.
Falco pennatus, *Cuv. Règ. An.* (1817) i. p. 323.
Archibuteo planiceps, *Brehm, Vög. Deuts.* i. p. 40.

Archibuteo alticeps, *Brehm, Vög. Deuts.* i. p. 40, t. iv. f. 2.
Accipiter lagopus, *Pall. Zoogr.* i. p. 360, t. x.
Butaëtes buteo, *Less. Tr. d'Orn.* p. 83.
Butaëtes Lessonii, *A. Smith.*
Butaëtes lagopus, *Pr. Bonap. Geogr. Comp. List of B.* p. 3.
Buteo lagopus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 10; *Flem. Brit. An.* p. 54; *Jenyns, Man. B. Vert. An.* p. 87; *Macgill. Hist. Brit. B.* iii. p. 193; *Eyton, Cat. Brit. B.* p. 4; *Keys. & Bl. Wirbelth. Eur.* p. 30; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 9.
Triorchis lagopus, *Kaup, Naturl. Syst.* p. 84.
Rough-legged Falcon, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 228, pl. xxvi.; *Selby, Brit. Orn.* i. p. 20; *Bew. Brit. B.* (1826) i. p. 20.
Rough-legged Buzzard, *Yarr. Brit. B.* 2 edit. i. p. 87, fig.
*Levaill. Ois. d'Afr.* t. 18; *Gould, B. of Eur.* pl. 15.

*a.* Norfolk. Female.
*b.* Kent. Female. Presented by Dr. Latham.
*c.* Great Britain.
*d.* Epping. Male. Presented by H. Doubleday, Esq.
*e.* Epping. Female. Presented by H. Doubleday, Esq.

## iii. *Milvinæ.*

### 1. PERNIS.

Pernis, *Cuv. Reg. An.* (1817) i. p. 322.

1. Pernis apivorus. The honey Buzzard.

Pernis apivorus, *Cuv. Règ. An.* (1817) i. p. 323; *Kaup, Classif. der Säug. und Vög.* p. 123; *Flem. Brit. An.* p. 52; *Macgill. Hist. Brit. B.* iii. p. 254; *Eyton, Cat. Brit. B.* p. 4; *Pr. Bonap. Geogr. Comp. List of B.* p. 3; *Keys. & Bl. Wirbelth. Eur.* p. 29; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 9; *G. R. Gray's Gen. of B.* i. p. 24.
Falco apivorus, *Linn. S. N.* i. p. 130; *Temm. Man. d'Orn.* 1815, p. 23; *Naum. Vög. Deuts.* (1822) i. p. 367, t. 36, 37.
Falco poliorhynchus, *Bechst. Taschenb. Deuts.* i. p. 19.
Falco dubius, *Sparr. Mus. Carls.* t. 26.
Falco incertus, *Lath. Ind. Orn.* i. p. 32.
Accipiter lacertarius, *Pall. Zoogr.* i. p. 359.
Pernis apium, *Brehm, Vög. Deuts.* i. p. 46.
Pernis vesparum, *Brehm, Vög. Deuts.* i. p. 47, t. iv. f. 3.

Buteo apivorus, *Vieill. N. Dict. d'Hist. Nat.* iv. p. 479; *Jenyns, Man. B. Vert. An.* p. 88.

The Honey Buzzard, *Bew. Brit. B.* (1797) i. p. 17; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 235; *Selby, Brit. Orn.* i. p. 22; *Yarr. Brit. B.* 2 edit. i. p. 91, fig.

*Pl. enl.* 420; *Gould, B. of Eur.* pl. 16; *Jard. and Selby, Ill. Orn. N. S.* pl. 1.

*a.* Yorkshire. Female.
*b.* Great Britain. Male.
*c.* Cornwall. Male.

## 2. MILVUS.

Milvus, *Cuv. Anat. Comp.* i. *Tabl. Sec. Class. des Ois.* (1799—1800).
Hydroïctinia, *Kaup, Classif. der Säug. und Vög.* p. 115 (1844).

### a. MILVUS.

#### 1. MILVUS REGALIS. The Kite.

Milvus regalis, *Briss. Orn.* i. p. 414, t. 33; *Kaup, Classif. der Säug. und Vög.* p. 114; *Brehm, Vög. Deuts.* i. p. 49; *Macgill. Hist. Brit. B.* iii. p. 265; *Eyton, Cat. Brit. B.* p. 4; *Pr. Bonap. Geogr. Comp. List of B.* p. 4; *Keys. & Bl. Wirbelth. Eur.* p. 30; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 10; *G. R. Gray, Gen. of B.* i. p. 24.

Falco milvus, *Linn. S. N.* i. p. 136; *Temm. Man. d'Orn.* 1815, p. 17; *Naum. Vög. Deuts.* (1822) i. p. 333, t. 31, f. 1.

Falco austriacus, *Gmel. S. N.* i. p. 262.

Accipiter korschun, *S. G. Gmel. N. C. Petr.* xv. p. 444, t. 11, a.

Milvus ictinus, *Savig. Descr. de l'Egypte, Hist. Nat.* i. p. 88; *Leach, Syst. Cat. Mam. & B. B. M.* p. 9; *Jenyns, Man. B. Vert. An.* p. 86.

Milvus castaneus, *Daud. Tr. d'Orn.* ii. p. 146.

Milvus russicus, *Daud. Tr. d'Orn.* ii. p. 188.

Milvus jaicensis, *Lepech. Iter.* ii. p. 180, t. 2.

Accipiter regalis, *Pall. Zoogr.* i. p. 358.

Milvus vulgaris, *Flem. Brit. An.* p. 51.

Milvus ruber, *Brehm, Vög. Deuts.* i. p. 50.

The Kite, *Bew. Brit. B.* (1797) i. p. 21, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 229; *Yarr. Brit. B.* 2 edit. i. p. 71, fig.

Kite or Glead, *Selby, Brit. Orn.* i. p. 15.

*a.* Caermarthenshire. Male. From Col. Montagu's collection.
*b.* Sternum. England. Presented by John Ray, Esq.

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### 3. NAUCLERUS.

Nauclerus, *Vigors, Zool. Journ.* (1825) p. 386.
Chelidopteryx, *Kaup, Classif. der Säug. und Vög.* p. 112 (1844).

#### a. NAUCLERUS.

1. NAUCLERUS FURCATUS. The swallow-tailed Falcon.

Elanoïdes furcatus, *Vieill. Encyc. Méth.* p. 1204.
Elanoïdes yetapa, *Vieill. Encyc. Méth.* p. 1205.
Nauclerus furcatus, *Vigors, Zool. Journ.* (1825) p. 387; *Kaup, Mus. Senckenb.* (1845) p. 258; *Pr. Bonap. Geogr. Comp. List of B.* p. 4; *Keys. & Bl. Wirbelth. Eur.* p. 29; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 11; *Macgill. Hist. Brit. B.* iii. p. 277; *G. R. Gray, Gen. of B.* i. p. 25.
Falco furcatus, *Linn. S. N.* i. p. 129; *Flem. Brit. An.* p. 52.
Milvus carolinensis, *Briss. Orn.* i. p. 418.
Milvus furcatus, *Jenyns, Man. B. Vert. An.* p. 86; *Eyton, Cat. Brit. B.* p. 66.
The Swallow-tailed Kite, *Yarr. Brit. B.* 2 edit. i. p. 77, fig.

*Catesby, Car.* t. 4; *Wils. Amer. Orn.* pl. 51, f. 3; *Azara*, No. 38; *Gould, B. of Eur.* pl. 30.

(Argyleshire and Yorkshire).

### iv. *FALCONINÆ.*

#### 1. FALCO.

Falco, *Linn. Syst. Nat.* 1735.
Hierofalco, *Cuv. Reg. An.* (1817) i. p. 312.
Gyrfalco, *Flem. Brit. An.* p. 50 (1828).
Rhynchodon, *Nitszch. Pterylogr.* p. 78 (1840).
Gennaia, *Kaup, Isis*, 1847, p. 69.

#### a. HIEROFALCO.

1. FALCO GYRFALCO. The Jerfalcon.

Falco (Hierofalco) candicans, *Kaup, Classif. der Säug. und Vög.* p. 110.
Falco (Hierofalco) gyrfalco, *Kaup, Mus. Senckenb.* (1845) p. 258.

Falco (Hierofalco) islandicus, *Kaup, Isis (1847)*, p. 76.
Falco gyrfalco, *Linn. S. N.* i. p. 130; *Pall. Zoogr.* i. p. 324, t. 3; *Macgill. Hist. Brit. B.* iii. p. 284; *Pr. Bonap. Geogr. Comp. List of B.* p. 4; *Keys. & Bl. Wirbelth. Eur.* p. 28; *G. R. Gray, Gen. of B.* i. p. 19.
Falco islandicus, *Brün. Faun. Grœnl.* No. 8; *Temm. Man. d'Orn.* 1815, p. 33; *Jenyns, Man. B. Vert. An.* p. 81.
Falco sacer, *Gmel. S. N.* i. p. 275.
Buteo cinereus, *Daud. Tr. d'Orn.* ii. p. 156.
Falco fuscus, *Brün. Faun. Grœnl.* p. 50?
Falco candicans, *Gmel. S. N.* i. p. 275; *Naum. Vög. Deuts.* (1822) i. p. 269, t. 22, 21; *Keys. & Bl. Wirbelth. Eur.* p. 28; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 1.
Falco grœnlandicus, *Hanc. Ann. Nat. Hist. (1839)* p. 249.
Hierofalco candicans, *Cuv. Règ. An. (1817)* p. 312.
Hierofalco islandicus, *Brehm, Vög. Deuts.* i. p. 55.
Hierofalco grœnlandicus, *Brehm, Vög. Deuts.* i. p. 56, t. v. f. 1.
Gyrfalco candicans, *Flem. Brit. An.* p. 50.
Hierofalco gyrfalco, *Eyton, Cat. Brit. B.* p. 2.
The Jerfalcon, *Bew. Brit. B. (1797)* i. p. 29; *Mont. Orn. Dict.; Selby, Brit. Orn.* i. p. 36; *Bew. Brit. B. (1826)* i. p. 15.
The Gyrfalcon, *Penn. Brit. Zool. (1812)* i. p. 217, pl. xix.; *Yarr. Brit. B.* 2 edit. i. p. 31, fig.

*Pl. enl.* 210, 446; *Gould, B. of Eur.* pl.

*a.* Iceland. From Mr. Leadbeater's collection.
*b.* Iceland. Young. From Mr. Leadbeater's collection.
*c.* Great Britain?

## b. Falco.

### 2. Falco peregrinus. The peregrine Falcon.

Falco peregrinus, *Gmel. S. N.* i. p. 272; *Temm. Man. d'Orn.* 1815, p. 34; *Leach, Syst. Cat. Mam. & B. B. M.* p. 11; *Kaup, Classif. der Säug. und Vög.* p. 110; *Brehm, Vög. Deuts.* i. p. 63; *Flem. Brit. An.* p. 49; *Jerd. Madr. Journ. Lit. and Sci.* (1839) p. 79; *Pall. Zool.* i. p. 327, t. 3, 4; *Jenyns, Man. B. Vert. An.* p. 82; *Naum. Vög. Deuts.* (1822) i. p. 285, t. 24, 25; *Macgill. Hist. Brit. B.* iii. p. 294; *Eyton, Cat. Brit. B.* p. 1; *Pr. Bonap. Geogr. Comp. List of B.* p. 4; *Keys. & Bl. Wirbelth. Eur.* p. 28; *G. R. Gray, Gen. of B.* i. p. 19.
Falco abietinus, *Bechst. Naturg. Deuts.* ii. p. 759.
Falco barbarus, *Linn. S. N.* i. p. 125.

Falco communis, *Briss. Orn.* i. p. 321; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 2.
Falco orientalis, *Gmel. S. N.* i. p. 264; *Ellis, Icon. Ined.* 7.
Falco punicus, *Levaill. Explor. Sci. de l'Algerie, Ois.* t. 1.
Falco peregrinus, *Hodgs. Gray, Zool. Misc.* (1844) p. 81.
Falco micrurus, *Hodgs. Gray, Zool. Misc.* (1844) p. 81.
Falco calidus, *Lath. Ind. Orn.* i. p. 41.
Falco cornicum, *Brehm, Vög. Deuts.* i. p. 62, t. v. f. 2.
The Lanner, *Penn. Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 223, pl. xxiii.
The Peregrine Falcon, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 218, pl. xx.; *Selby, Brit. Orn.* i. p. 37; *Yarr. Brit. B.* 2 edit. i. p. 37, fig.

*Pl. enl.* 430; *Gould, B. of Eur.* pl. 21.

*a*, *b*. Devonshire. Male. From Col. Montagu's collection.
*c*, *d*. Devonshire. Female. From Col. Montagu's collection.
*e*. Bickham, Devon. Male.
*f*. Great Britain. Female.
*g*. Sternum. England.
*h*. Sternum. England. Presented by T. Ingall, Esq.
*i*. Sternum. England. Presented by John Ray, Esq.

## 2. HYPOTRIORCHIS.

Hypotriorchis, *Boie, Isis* (1826), p. 976.
Æsalon, *Kaup, Naturl. Syst.* (1829) p. 40.
Dendrofalco, *G. R. Gray; List of Gen. of B.* (1840) p. 3.

### a. HYPOTRIORCHIS.

#### 1. HYPOTRIORCHIS SUBBUTEO. The Hobby.

Hypotriorchis subbuteo, *Boie, Isis* (1826), p. 976; *Kaup, Naturl. Syst.* p. 34; *G. R. Gray, Gen. of B.* i. p. 20.
Falco subbuteo, *Linn. S. N.* i. p. 127; *Temm. Man. d'Orn.* 1815, p. 37; *Frankl. Proc. Z. S.* (1831) p. 114; *Brehm, Vög. Deuts.* i. p. 64, 65; *Flem. Brit. An.* p. 49; *Jenyns, Man. B. Vert. An.* p. 82; *Naum. Vög. Deuts.* (1822) i. p. 296, t. 26; *Macgill. Hist. Brit. B.* iii. p. 309; *Eyton, Cat. Brit. B.* p. 2; *Pr. Bonap. Geogr. Comp. List of B.* p. 4; *Keys. & Bl. Wirbelth. Eur.* p. 28; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 3.

Falco barletta, *Daud. Tr. d'Orn.* ii. p. 129.
Falco subbuteo major, *Lath. Ind. Orn. Suppl.* p. x.
Falco pinetarius, *Shaw, Gen. Zool.* vii. p. 195?
Falco hirundinum, *Brehm, Vög. Deuts.* i. p. 65.
Falco (Hypotriorchis) subbuteo, *Kaup, Classif. der Säug. und Vög.* p. 111.
The Hobby, *Bew. Brit. B.* (1797) i. p. 39; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 247; *Selby, Brit. Orn.* i. p. 41; *Yarr. Brit. B.* 2 edit. i. p. 45, fig.

*Pl. enl.* 432; *Gould, B. of Eur.* pl. 22.

*a*. Devonshire. Male. From Col. Montagu's collection.
*b*. Young male. Presented by J. Scales, Esq.
*c*. Chicks. England. Presented by Mr. J. Baker.
*d*. Turnham Green. Young male. From Mr. J. Baker's collection.
*e*. Turnham Green. Female. From Mr. J. Baker's collection.
*f*. Sternum. England. Presented by John Ray, Esq.
*g*. Skull. England. Presented by John Ray, Esq.

## b. ÆSALON.

### 2. HYPOTRIORCHIS ÆSALON. The Merlin.

Hypotriorchis æsalon, *Boie, Isis*, 1828, p. 314; *G. R. Gray, Gen. of B.* i. p. 20.
Falco æsalon, *Gmel. S. N.* i. p. 284; *Temm. Man. d'Orn.* 1815, p. 38; *Flem. Brit. An.* p. 50; *Jenyns, Man. B. Vert. An.* p. 83; *Brehm, Vög. Deuts.* i. p. 68; *Pall. Zoogr.* i. p. 336, t. 7; *Naum. Vög. Deuts.* (1822) i. p. 303, t. 27; *Macgill. Hist. Brit. B.* iii. p. 317; *Eyton, Cat. Brit. B.* p. 2; *Pr. Bonap. Geogr. Comp. List of B.* p. 4; *Keys. & Bl. Wirbelth. Eur.* p. 3; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 3;
Falco cæsius, *Meyer, Taschenb. Deuts.* i. p. 60.
Falco lithofalco, *Gmel. S. N.* i. p. 278; *Brehm, Vög. Deuts.* i. p. 67.
Falco regulus, *Pall. Iter.* ii. p. 707.
Falco sibiricus, *Shaw, Gen. Zool.* vii. p. 207.
Falco smirillus, *Sav. Descr. de l'Egypte, Hist. Nat.* i. p. 100; *Leach, Syst. Cat. Mam. & B. B. M.* p. 10.
Æsalon lithofalco, *Kaup, Naturl. Syst.* (1829) p. 40.
Falco (Æsalon) lithofalco, *Kaup, Mus. Senckenb.* (1845) p. 258.
The Merlin, *Bew. Brit. B.* (1797) i. p. 41, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 251; *Selby, Brit. Orn.* i. p. 45; *Yarr. Brit. B.* 2 edit. i. p. 53, fig.

Stone Falcon, *Mont. Orn. Dict. App. to Suppl.*
*Pl. enl.* 447 ; *Gould, B. of Eur.* pl. 24.

*a*. Devonshire. Male. From Col. Montagu's collection.
*b*. Somersetshire. Young female. From Col. Montagu's collection.
*c*. Sternum. England.
*d*. Sternum. England. Presented by T. Ingall, Esq.
*e*. Sternum. England. Presented by John Ray, Esq.

## 3. TINNUNCULUS.

Tinnunculus, *Vieill. Ois. de l'Amér. Sept.* i. p. 39 (1807).
Cerchneis, *Boie, Isis* (1826), p. 976.
Ægypius, *Kaup, Naturl. Syst.* p. 20 (1829).
Falcula, *Hodgs. Journ. A. S. B.* (1837) p. 365.
Erythropus, *Brehm, Isis* (1828), p. 1270.
Pannychistes, *Kaup, Naturl. Syst. der Eur. Thier.* p. 57 (1829).
Pœcilornis, *Kaup, Classif. der Säug. und Vög.* p. 108 (1844).
Tichornis, *Kaup, Classif. der Säug. und Vög.* p. 108 (1844).

### a. TINNUNCULUS.

#### 1. TINNUNCULUS ALAUDARIUS. The Kestril.

Tinnunculus alaudarius, *G. R. Gray, List. Gen. of B.* (1840) p. 3 ; *Kaup, Mus. Senckenb.* (1845) p. 257 ; *G. R. Gray, Gen. of B.* i. p. 21.
Falco tinnunculus, *Linn. S. N.* i. p. 127 ; *Temm. Man. d'Orn.* 1815, p. 39 ; *Leach, Syst. Cat. Mam. & B. B. M.* p. 10 ; *Frankl. Proc. Z. S.* (1831) p. 114 ; *Flem. Brit. An.* p. 50 ; *Jenyns, Man. B. Vert. An.* p. 84 ; *Naum. Vög. Deuts.* (1822) i. p. 523, t. 30 ; *Macgill. Hist. Brit. B.* iii. p. 325 ; *Eyton, Cat. Brit. B.* p. 2 ; *Keys. & Bl. Wirbelth. Eur.* p. 29 ; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 4.
Accipiter alaudarius, *Briss. Orn.* i. p. 379.
Falco brunneus, *Bechst. Naturg. Deuts.* i. p. 38.
Cerchneis tinnuncula, *Boie, Isis* (1828), p. 314 ; *Pr. Bonap. Geogr. Comp. List. of B.* p. 5.
Falco fasciatus, *Retz. Faun. Suec.* p. 70.
Falco rufescens, *Swains. B. of W. Afr.* i. p. 109.
Falco interstinctus, *M'Clell. Proc. Zool. Soc.* (1839) p. 154.
Falco tinnunculus, japonicus, *Temm. et Schl. Faun. Jap.* t.
Cerchneis murum, *Brehm, Vög. Deuts.* i. p. 70.

Cerchneis media, *Brehm, Vög. Deuts.* i. p. 72.
Cerchneis tinnuncula, *Brehm, Vög. Deuts.* i. p. 73.
Ægypius tinnunculus, *Kaup, Naturl. Syst.* p. 29.
The Kestrel, *Bew. Brit. B.* (1797) i. p. 36, 37, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 244; *Selby, Brit. Orn.* i. p. 43.
The Kestril or Windhover, *Yarr. Brit. B.* 2 edit. i. p. 57, fig. *Pl. enl.* 401, 471; *Gould, B. of Eur.* pl. 26.

*a.* Devonshire. Male. From Col. Montagu's collection.
*b.* Wiltshire. Male. From Col. Montagu's collection.
*c.* Wiltshire. Female. From Col. Montagu's collection.
*d.* Great Britain. Female. Presented by A. Cooper, Esq., R.A.
*e.* Cambridgeshire. Male. From Mr. J. Clark's collection.
*f.* Cambridgeshire. Female. From Mr. J. Clark's collection.
*g, h.* Nest and chicks. England. Presented by Maj. Gen. T. Hardwicke.
*i.* Chick. From Mr. Bullock's collection.
*j.* Sternum. England. Presented by T. Ingall, Esq.
*k.* Sternum. England. Presented by John Ray, Esq.

## b. ERYTHROPUS.

### 2. TINNUNCULUS VESPERTINUS. The Red-footed Falcon.

Tinnunculus vespertinus, *G. R. Gray, Gen. of B.* i. p. 21; *Cat. Mam. and Birds of Nepal, &c.*, p. 45; *G. R. Gray, Gen. of B.* i. p.
Falco vespertinus, *Linn. S. N.* i. p. 129; *Pall. Zoogr.* i. p. 334, t. 6; *Macgill. Hist. Brit. B.* iii. p. 313; *Pr. Bonap. Geogr. Comp. List of B.* p. 4; *Keys. & Bl. Wirbelth. Eur.* p. 29.
Falco rufipes, *Beseke, Vög. Kurlands*, p. 13, t. 3, 4; *Temm. Man. d'Orn.* 1815, p. 41; *Jenyns, Man. Vert. An.* p. 83; *Naum. Vög. Deuts.* (1822) i. p. 311, t. 28; *Eyton, Cat. Brit. B.* p. 2; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 4.
Cerchneis vespertinus, *Boie, Isis* (1828), p. 314.
Erythropus vespertinus, *Brehm, Vög. Deuts.* i. p
Pannychistes rufipes, *Kaup, Naturl. Syst.* p. 57.
Tinnunculus (Erythropus) rufipes, *Kaup, Classif. der Säug. und Vög.* p. 108.
Tinnunculus (Erythropus) vespertinus, *Kaup, Mus. Senckenb.* (1845) p. 257.

The Red-legged Falcon, *Eyton, Hist. R. Brit. B.* p. 5, fig.
The Red-footed Falcon, *Yarr. Brit. B.* 2 edit. i. p. 49, fig.

*Pl. enl.* 431; *Pall. Zoogr.* t. 6; *Kittl. Kupf. der Vög.* t. 3, f. 1; *Gould, B. of Eur.* pl. 23.

(Norfolk, &c., and county of Wicklow).

## v. *Accipitrinæ.*

### 1. ASTUR.

Astur, *Lacep. Mém. de l'Inst.* iii. p. 506 (1800—1801).
Dædalion, *Sav. Descr. de l'Egypte, Hist. Nat.* p. 92 (1809).
Sparvius, *Vieill. Analyse, &c.*, p. 24 (1816).
Leucospiza, *Kaup, Classif. der Säug. und Vög.* p. 118 (1844).
Lophospiza, *Kaup, Classif. der Säug. und Vög.* p. 118 (1844).
Asturina, *Vieill. Analyse, &c.*, p. 24 (1816).
Rupornis, *Kaup, Classif. der Säug. und Vög.* p. 120 (1844).

### a. ASTUR.

#### 1. ASTUR PALUMBARIUS. The Goshawk.

Astur palumbarius, *Bechst. Taschenb. Deuts.* ii. p. 268; *Brehm, Vög. Deuts.* i. p. 84, t. 6, f. 1; *Eyton, Cat. Brit. B.* p. 3; *Pr. Bonap. Geogr. Comp. List of B.* p. 5; *Keys. & Bl. Wirbelth. Eur.* p. 31; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 4; *G. R. Gray, Gen. of B.* i. p. 27.
Falco palumbarius, *Linn. S. N.* i. p. 130; *Pl. enl.* 418; *Temm. Man. d'Orn.* 1815, p. 29; *Naum, Vög. Deuts.* (1822) i. p. 250, t. 17, 18.
Buteo palumbarius, *Flem. Brit. An.* p. 54.
Accipiter palumbarius, *Jenyns, Man. B. Vert. An.* p. 85; *Macgill. Hist. Brit. B.* iii. p. 340.
Falco gallinarius, *Gmel. S. N.* i. p. 266; *Pl. enl.* 461, 423.
Falco gentilis, *Linn. S. N.* i. p. 126.
Falco albescens, *Bodd. Tabl. Pl. Enl. de D'Aub.* p. 25.
Accipiter astur, *Pall. Zoogr.* t. 11.
Astur gallinarum, *Brehm, Vög. Deuts.* i. p. 83.
The Goshawk, *Bew. Brit. B.* (1797) i. p. 23, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 225, pl. xxiv.; *Selby, Brit. Orn.* i. p. 31; *Yarr. Brit. B.* 2 edit. i. p. 62, fig.

Gentil Falcon, *Bew. Brit. B.* (1797) i. p. 30; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 222, pl. xxi. xxii.

*Gould, B. of Eur.* pl. 17; *Jard. and Selby, Ill. Orn.* pl. 121.

*a*. Great Britain. Young.

## 2. ACCIPITER.

Accipiter, *Briss. Orn.* i. p. 310 (1760).
Nisus, *Cuv. Anat. Compar.* i. *Tab. Sec. Cl. des Oïs.* (1799—1800).
Ierax, *Leach, Syst. Cat. Mam. & Birds*, p. 10 (1816).
Hieraspiza, *Kaup, Classif. der Säug. und Vög.* p. 116 (1844).
Urospiza, *Kaup, Mus. Senckenb.* (1845) d. 259.

### a. ACCIPITER.

#### 1. ACCIPITER NISUS. The Sparrow-Hawk.

Accipiter nisus, *Pall. Zoogr.* i. p. 370; *Macgill. Hist. Brit. B.* iii. p. 346; *Pr. Bonap. Geogr. Comp. List of B.* p. 5; *G. R. Gray, Gen. of B.* i. p. 29.
Falco nisus, *Linn. S. N.* i. p. 130; *Temm. Man. d'Orn.* 1815, p. 31; *Naum. Vög. Deuts.* (1822) i. p. 258, t. 19, 20.
Accipiter fringillarius, *Ray, Syn.* p. 18; *Jenyns, Man. B. Vert. An.* p. 85; *Eyton, Cat. Brit. B.* p. 3.
Nisus communis, *Cuv. Less. Tr. d'Orn.* p. 53.
Accipiter maculatus, *Briss. Orn.* i. p. 314.
Falco lacteus, *Gmel. S. N.* i. p. 281.
Nisus elegans, *Brehm, Vög. Deuts.* i. p. 86, t. 6, f. 2.
Nisus fringillarum, *Brehm, Vög. Deuts.* i. p. 87.
Nisus peregrinus, *Brehm, Vög. Deuts.* i. p. 88.
Sparvius nisus, *Vieill. N. Dict. d'Hist. Nat.* x. p. 319.
Nisus fringillarius, *Kaup, Classif. der Säug. und Vög.* p. 117.
Accipiter nisosimilis, *Tick. Journ. A. S. B.* (1833) p. 571.
Accipiter subtypicus, *Hodgs. Gray, Zool. Misc.* (1844) p. 81.
Ierax fringillarius, *Leach, Syst. Cat. Mam. & B. B. M.* p. 10.
Buteo nisus, *Flem. Brit. An.* p. 55.
Astur nisus, *Keys. & Bl. Wirbelth. Eur.* p. 31; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 5.
The Sparrowhawk, *Bew. Brit. B.* (1797) i. p. 27, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 249; *Selby. Brit. Orn.* i. p. 33; *Yarr. Brit. B.* 2 édit. i. p. 67, fig.

*Pl. enl.* 467, 412; *Gould, B. of Eur.* pl. 18.

*a*. Wiltshire. Male. From Col. Montagu's collection.
*b*. Wiltshire. Female. From Col. Montagu's collection.
*c*. Great Britain. Male. Presented by A. Cooper, Esq., R.A.
*d*. Saffron Walden. Male. From Mr. J. Clarke's collection.
*e*. Cambridgeshire. Young. Presented by Mr. J. Baker.
*f*. Saffron Walden. Female. From Mr. J. Clarke's collection.
*g*. Cambridgeshire. Female. From Mr. J. Baker's collection.
*h*. Cornwall. Presented by D. W. Mitchell, Esq.
*i*. Sternum. England. Male. Presented by T. Ingall, Esq.
*j*. Sternum. England. Female. Presented by T. Ingall, Esq.
*k*. Sternum. England.
*l*. Sternum. England. Presented by John Ray, Esq.

## vi. *Circinæ*.

### 1. CIRCUS.

Circus, *Lacep. Mem. d'Inst.* iii. p. 506 (1800—1801).
Pygargus, *Koch, Syst. der Baier. Zool.* p (1816).
Strigiceps, *Bonap.* (1831) *Sagg. Distr. Meth. Anim. Vert.* p. 37.
Busarellus, *Lafr. Rev. Zool.* (1839).
Glaucopteryx, *Kaup, Classif. der Säug. und Vög.* p. 113 (1844).
Spilocircus, *Kaup, Isis* (1847), p. 101.
Spizacircus, *Kaup, Mus. Senckenb.* (1845) p. 258.

#### a. Strigiceps.

##### 1. Circus cyaneus. The Hen Harrier.

Circus cyaneus, *Boie, Isis* (1822), p. 549; *Flem. Brit. An.* p. 53; *Macgill. Hist. Brit. B.* iii. p. 366; *Keys. and Bl. Wirbelth. Eur.* p. 31; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 6; *G. R. Gray, Gen. of B.* i. p. 32.
Falco cyaneus, *Linn. S. N.* i. p. 126; *Temm. Man. d'Orn.* 1815, p. 26.
Circus Ægithus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 9.
Falco pygargus, *Linn. S. N.* i. p. 126; *Naum. Vög. Deuts.* (1822) i. p. 391, t. 38, 39.
Accipiter variabilis, *Pall. Zoogr.* i. p. 364.
Falco bohemicus, *Gmel. S. N.* i. p. 279.
Falco albicans, *Gmel. S. N.* i. p. 276.
Falco griseus, *Gmel. S. N.* i. p. 276.
Falco montanus, *Gmel. S. N.* i. p. 276.

Falco cinereus, *It. Poseg.* p. 29.
Falco rubiginosus, *It. Poseg.* p. 29.
Circus gallinarius, *Sav. Descr. de l'Egypte, Hist. Nat.* i. p. 92.
Falco strigiceps, *Nils. Faun. Suec.* i. p. 21.
Pygargus dispar, *Koch, Syst. der Baier. Zool.* p.
Circus pygargus, *Cuv. Reg. An.* (1817) i. p. 324; *Eyton, Cat. Brit. B.* p. 5.
Strigiceps pygargus, *Pr. Bonap. Geogr. Comp. List of B.* p. 5.
Circus (Strigiceps) cyaneus, *Bonap. Kaup, Mus. Senckenb.* (1845) p. 258; *Edw. Birds*, pl. 225.
Falco hudsonius, *Linn. S. N.* i. p. 128; *Edw. Birds*, pl. 107.
Circus hudsonius, *Vieill. Ois. de l'Amér. Sept.* i. p. 36, t. 9.
Falco uliginosus, *Gmel. S. N.* i. p. 278; *Edw. Birds*, pl. 291.
Circus uliginosus, *Vieill. Ois. de l'Amér. Sept.* i. p. 37.
Circus (Strigiceps) uliginosus, *Kaup, Mus. Senckenb.* (1845) p. 258.
Falco variegatus, *Gmel. S. N.* i. p. 276.
Falco albidus, *Gmel. S. N.* i. p. 276.
Circus variegatus, *Vieill. Ois. de l'Amér. Sept.* i. p. 37.
Falco Buffonii, *Gmel. S. N.* i. p. 277.
Falco europogistus, *Bosc, Daud. Tr. d'Orn.* ii. p. 110; *Vieill. Ois. de l'Amér. Sept.* t. 8.
Buteo (Circus) cyaneus? var.? americanus, *Sw. and Rich. Faun.*
Buteo cyaneus, *Jenyns, Man. B. Vert. An.* p. 89.
The Hen Harrier, *Bew. Brit. B.* (1812) i. p. 33, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 239, pl. xxix.; *Selby, Brit. Orn.* i. p. 26; *Yarr. Brit. B.* 2 edit. i. p. 101, fig.
The Ring-tail, *Bew. Brit. B.* (1797) i. p. 35, fig.; *Penn. Brit. Zool.* (1812) i. p. 240.

*Edwards' Birds*, pl. 8.

*a*. Devonshire. Male. From Col. Montagu's collection.
*b*. Great Britain. Male.
*c*. Norfolk. Young female. Presented by J. Scales, Esq.
*d*. Great Britain. Young female. From Col. Montagu's collection.
*e*. Devonshire. Young female. From Col. Montagu's collection.
*f*. Great Britain. Young female. Presented by Sir A. Molesworth.
*g*, *h*. Sterna. England.
*i*. Sternum. England. Presented by John Ray, Esq.

## b. Glaucopteryx.

### 2. Circus cinerageus. The Ash-coloured Falcon.

Falco cineraceus, *Mont. Orn. Dict.*
Falco cinerarius, *Mont. Trans. Linn.* ix. p. 188; *Eyton, Cat. Brit. B.* p. 5; *Selby, Brit. Orn.* i. p. 28.
Circus cinerarius, *Leach, Syst. Cat. Mam. and B. B. M.* p. 9.
Circus cineraceus, *Naum. Vög. Deuts.* (1822) i. p. 402, t. 40; *Macgill. Hist. Brit. B.* iii. p. 378; *Pr. Bonap. Geogr. Comp. List of B.* p. 5; *Keys. and Bl. Wirbelth. Eur.* p. 31; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 6; *G. R. Gray, Gen. of B.* i. p. 32.
Circus Montagui, *Vieill. N. Dict. d'Hist. Nat.* xxxi. p. 411; *Yarr. Brit. B.* 2 edit. i. p. 107.
Buteo cineraceus, *Flem. Brit. An.* p. 55; *Jenyns, Man. B. Vert. A.* p. 90.
Circus (Glaucopteryx) cineraceus, *Kaup, Classif. der Säug. und Vög.* p. 113.
Ash-coloured Falcon, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 243.
Ash-coloured Harrier, *Selby, Brit. Orn.* i. p. 28.
Montagu's Harrier, *Yarr. Brit. B.* 2 edit. i. p. 107, fig.

*a.* Devonshire. Male. From Col. Montagu's collection.
*b.* Wiltshire. Male. From Col. Montagu's collection.
*c.* Oxfordshire. Male.
*d.* Ashburton, Devon. Male. From Col. Montagu's collection.
*e.* ———— ? Female.

## c. Pygargus.

### 3. Circus æruginosus. The Moor Buzzard.

Circus æruginosus, *Sav. Descr. de l'Egypte, Hist. Nat.* i. p. 90; *Leach, Syst. Cat. Mam. and B. B. M.* p. 9; *Kaup, Mus. Senckenb.* (1845) p. 258; *Macgill. Hist. Brit. B.* iii. p. 382; *Pr. Bonap. Geogr. Comp. List of B.* p. 5; *Keys. and Bl. Wirbelth. Eur.* p. 31; *G. R. Gray, Gen. of B.* i. p. 32.
Falco æruginosus, *Linn. S. N.* i. 130.
Circus palustris, *Briss. Orn.* i. p. 401.
Circus variegatus, *Sykes, Proc. Z. S.* (1832) p. 81.
Falco rufus, *Gmel. S. N.* i. p. 266; *Temm. Man. d'Orn.* 1815, p. 24; *Naum. Vög. Deuts.* (1822) i. p. 378, t. 37, 38.

Circus rufus, *Briss. Orn.* i. p. 404; *Sav. Descr. de l'Egypte, Hist. Nat.* i. p. 91; *Eyton, Cat. Brit. B.* p. 5; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 5.
Falco arundinaceus, *Bechst.*
Falco Krameri, *Kram.*
Circus rufus, *var.* indicus, *Less. Compl. Buff.* vii. p. 155.
Circus Sykesi, *Less. Compl. Buff.* vii. p. 161.
Buteo æruginosus, *Flem. Brit. Anim.* p. 55.
Accipiter circus, *Pall. Zoogr.* i. p. 362.
Pygargus rufus, *Koch, Syst. der Baier. Zool.* p.; *Kaup, Classif. der Säug. und Vög.* p. 113.
Buteo rufus, *Jenyns, Man. B. Vert. An.* 88.
Moor Buzzard, *Bew. Brit. B.* (1797) i. p. 19, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 237, pl. xxviii.
Marsh Harrier, *Selby, Brit. Orn.* i. p. 24; *Yarr. Brit. B.* 2 edit. i. p. 97, fig.

*Pl. enl.* 460, 424.

*a.* Carmarthenshire. Female. From Col. Montagu's collection.
*b.* Great Britain. Male.
*c.* Sternum. England.
*d.* Sternum. England. Presented by John Ray, Esq.
*e.* Skull. England. Presented by John Ray, Esq.

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## Sub-Order 2. ACCIPITRES NOCTURNI.

Accipitres nocturni, *Vieill.* (1816); *Cuv.* (1817).
Nycteriens, *Cuv.* (1799—1800).
Ægolii, *Vieill.* (1816).
Notturni, *Ranz.* (1823).

# FAM. III. STRIGIDÆ.

## i. *SURNINÆ.*

### 1. SURNIA.

Surnia, *Dum. Zool. Anal.* p. 34 (1806).

1. SURNIA ULULA. The Hawk Owl.

Surnia ulula, *Bonap.*; *G. R. Gray, Gen. of B.* i. p. 33.
Strix ulula, *Linn. S. N.* i. p. 133.
Strix funerea, *Linn. S. N.* i. p. 133; *Temm. Man. d'Orn.* 1815, p. 57; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 17.
Strix doliata, *Pall. Zoogr.* i. p. 316, t. 1.
Strix canadensis, *Briss. Orn.* i. p. 518, t. 37, f. 2.
Strix freti hudsonis, *Briss. Orn.* i. 520.
Strix hudsonia, *Gmel. S. N.* i. p. 295.
Strix nisoria, *Meyer, Taschenb. Deuts.* i. p. 84; *Naum. Vög. Deuts.* (1822) i. p. 427, t. 42, f. 2.
Strix arctica, *Sparr. Mus. Carl.* 51.
Noctua (Surnia) funerea, *Cuv. Règ. An.* (1817) i. p. 332; *Jenyns, Man. B. Vert. An.* p. 526.
Surnia funerea, *Brehm, Vög. Deuts.* i. p. 101; *Proc. Zool. Soc.* (1835) p. 77; *Pr. Bonap. Geogr. Comp. List of B.* p. 6; *Keys. and Bl. Wirbelth. Eur.* p. 32.
Surnia borealis, *Less. Tr. d'Orn.* p. 100.
Surnia nisoria, *Brehm, Vög. Deuts.* i. p. 102, t. 7, f. 1.
Syrnium nisoria, *Kaup, Naturl. Syst. der Eur. Thier.* p. 59.
Syrnia funerea, *Macgill. Hist. Brit. B.* iii. p. 404.
The Hawk Owl, *Yarr. Brit. B.* 2 edit. i. p. 146, fig.

*Pl. enl.* 463; *Edwards' Birds*, pl. 62; *Gould, B. of Eur.* pl. 45.

(At sea, off Cornwall).

## 2. NYCTEA.

Nyctea, *Steph. Gen. Zool.* xiii. p. 62 (1825).

### 1. NYCTEA NIVEA. The snowy Owl.

Nyctea nivea, *Bonap.*; *G. R. Gray, Gen. of B.* i. p. 34.
Strix nyctea, *Linn. S. N.* i. p. 132; *Temm. Man. d'Orn.* 1815, p. 48; *Flem. Brit. An.* p. 58; *Naum. Vög. Deuts.* (1822), i. p. 417, t. 41; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 17.
Strix nivea, *Daud. Tr. d'Orn.* ii. p. 190.
Strix candida, *Lath. Ind. Suppl.* p. xiv.
Strix erminea, *Shaw, Gen. Zool.* vii. p. 251.
Nyctea erminea, *Steph. Gen. Zool.* xiii. p. 63.
Nyctia candida, *Swains. Classif. of B.* ii. p. 217; *Pr. Bonap. Geogr. Comp. List of B.* p. 6.
Noctua nyctea, *Cuv. Règ. An.* (1817), i. p. 332; *Brehm, Vög. Deuts.* i. p. 103, t. 7, f. 2; *Jenyns, Man. B. Vert. An.* p. 23.
Surnia nyctea, *Selby, Ornith.* i. p. 95; *Eyton, Cat. Brit. B.* p. 6; *Keys. & Bl. Wirbelth. Eur.* p. 33.
Syrnium nyctea, *Kaup, Naturl. Syst. der Eur. Thier.* p. 59.
Syrnia nyctea, *Macgill. Hist. Brit. B.* iii. p. 407.
Snowy Owl, *Mont. Orn. Dict. Suppl. App.; Selby, Brit. Orn.* i. p. 58.

*Pl. enl.* 458; *Edwards' Birds*, pl. 61; *Levaill. Ois. d'Afr.* t. 45; *Gould, B. of Eur.* pl. 43.

*a.* Unst, Shetland Islands. From Mr. Bullock's collection.

## 3. ATHENE.

Noctua, *Sav. Descr. de l'Egypte, Hist. Nat.* i. p. 105 (1809).
Athene, *Boie, Isis* (1822), p. 549.
Carine, *Kaup. Naturl. Syst. der Eur. Thier.* p. 29 (1829).
Nyctipetes, *Swains. Classif. of B.* ii. p. 218 (1837).
Glaucidium, *Boie, Isis* (1826), p. 976 (1837).
Ninox, *Hodgs. Journ. A. S. B.* (1837), p. 364.
Ciccaba, *Wagl. Isis* (1832), p. 1222.

## a. ATHENE.

### 1. ATHENE NOCTUA. The Little Owl.

Athene noctua, *Boie*, *Isis* (1826), p. 315; *Pr. Bonap. Geogr. Comp. List of B.* p. 6; *G. R. Gray*, *Gen. of B.* i. p. 34.
Strix noctua, *Retz. Faun. Suec.* p. 85; *Naum. Vög. Deuts.* i. p. 493, t. 48, f. 1; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 15.
Strix passerina, *Lath. Ind. Orn.* i. p. 65; *Temm. Man. d'Orn.* 1815, p. 53; *Flem. Brit. An.* p. 58.
Noctua passerina, *Cuv. Règ. An.* (1817), i. p. 332 (1829), p. 345; *Jenyns*, *Man. B. Vert. An.* p. 94; *Eyton*, *Cat. Brit. B.* p. 7.
Noctua glaux, *Sav. Descr. de l'Egypte*, *Hist. Nat.* i. p. 105.
Strix nudipes et S. psilodactyla, *Nils. Orn. Suec.* i. p. 68, t. 2; *Temm. Man. d'Orn.* iii. p. 50.
Athene psilodactyla, *Brehm*, *Vög. Deuts.* i. p. 110, t. 8, f. 2.
Noctua veterum, *Licht.*
Athene passerina, *Boie*, *Isis* (1822), p. 549; *Brehm*, *Vög. Deuts.* i. p. 110.
Athene gymnopus, *Hodgs.*
Carine passerina, *Kaup*, *Naturl. Syst.* p. 29.
Syrnia psilodactyla, *Macgill. Hist. Brit. B.* iii. p. 417.
Surnia noctua, *Keys. & Bl. Wirbelth. Eur.* p. 32.
The Little Owl, *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 270; *Selby*, *Brit. Orn.* i. p. 64; *Yarr. Brit. B.* 2 edit. i. p. 149.
*Pl. enl.* 439; *Gould*, *B. of Eur.* pl. 48; *Edwards*, *Birds*, pl. 228.

*a*. Great Britain. From Mr. Gould's collection.

## 4. NYCTALE.

Nyctale, *Brehm*, *Isis* (1828), p. 1271.
Ægolius, *Kaup*, *Naturl. Syst. der Eur. Thier.* p. 34 (1829).
Scotophilus, *Swains. Classif. of B.* ii. p. 217 (1837).

### 1. NYCTALE FUNEREA. Tengmalm's Owl.

Nyctale funerea, *Pr. Bonap.*
Nyctale Tengmalmi, *Pr. Bonap. Geogr. Comp. List of B. Eur. and N. Amer.* p. 7; *Keys. & Bl. Wirbelth. Eur.* p. 32; *G. R. Gray*, *Gen. of B.* i. p. 40.
Strix funerea, *Linn. Faun. Suec.* p. 25.
Strix passerina, *Pall. Zoogr.* i. p. 323.

Strix Tengmalmi, *Gmel. S. N.* i. p. 291 ; *Faun. Bor. Amer. Birds*, p. 94, pl. 32; *Temm. Man. d'Orn.* 1815, p. 54 ; *Naum. Vög. Deuts.* (1822) i. p. 501, t. 48, f. 2, 3 ; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 15.
Nyctale pinetorum, *Brehm, Vög. Deuts.* i. p. 112.
Nyctale abietum, *Brehm, Vög. Deuts.* p. 113, t. 8, f. 3.
Nyctale planiceps, *Brehm, Vög. Deuts.* p. 113.
Noctua Tengmalmi, *Cuv. Règ. An.* (1829), i. p. 345 ; *Jenyns, Man. B. Vert. An.* p. 94.
Athene Tengmalmi, *Boie, Isis* (1822), p. 549.
Ægolius Tengmalmi, *Kaup, Naturl. Syst.* p. 34.
Nyctale Richardsoni, *Pr. Bonap. Geogr. Comp. List of B. Eur. and Amer.* p. 7.
Ulula Tengmalmi, *Audub. Syn. B. of Amer.* p. 24 ; *Macgill. Hist. Brit. B.* iii. p. 45.
Strix passerina, *Forst. Phil. Trans.* lxii. p. 385.
Scotophilus Tengmalmi, *Swains. Classif. of B.* ii. p. 217.
The Little Owl, *Bew. Brit. B.* (1797) i. p. 54.
Tengmalm's Owl, *Eyton, R. Brit. B.* p. 90 ; *Yarr. Brit. B.* 2 edit. i. p. 153, fig.

*Penn. Brit. Zool.* fol. pl.; *Gould, B. of Eur.* pl. 49.

(Kent).

## ii. *Buboninæ.*

### 1. EPHIALTES.

Scops, *Sav. Descr. de l'Egypte, Hist. Nat.* i. p. 105 (1809).
Ephialtes, *Keys. & Bl. Wirbelth. Eur.* p. 33 (1840).
Lophostrix, *Less. Compl. Buff. Ois.* vii. p. 261 (1836).

#### a. EPHIALTES.

##### 1. EPHIALTES SCOPS. The Scops eared Owl.

Ephialtes scops, *G. R. Gray, Gen. of B.* i. p. 38.
Strix scops, *Linn. S. N.* i. p. 129; *Temm. Man. d'Orn.* 1815, p. 45 ; *Naum. Vög. Deuts.* (1822) i. p. 466, t. 43, f. 3.
Strix zorca, *Cetti, Uc. di Sardegn.* p. 60.
Strix carniolica, *Gmel. S. N.* i. p. 290.
Scops zorca, *Swains. Classif. of B.* ii. p. 217.
Strix gui, *Scop. Ann.* 1, No. 9.

Scops Aldrovandi (*Ray*), *Flem. Brit. An.* p. 57; *Macgill. Hist. Brit. B.* iii. p. 422; *Eyton, Cat. Brit. B. p.* 7; *Pr. Bonap. Geogr. Comp. List of B.* p. 6.
Scops ephialtes, *Sav. Descr. de l'Egypte, Hist. Nat.* i. p. 107.
Scops europæus, *Less. Tr. d'Orn.* p. 106.
Bubo scops, *Boie, Isis* (1822), p. 549; *Jenyns, Man. B. Vert. An.* p. 91.
Scops carniolica, *Brehm, Vög. Deuts.* i. p. 126, t. 9, f. 3.
Strix pulchella, *Pall. Iter.* i. p. 456.
Scops pennata, *Hodgs. Journ. A. S. B.* (1837) p. 369.
Scops sunia, *Hodgs. Journ. A. S. B.* (1837) p. 369; *As. Res.* xix. p. 175.
Otus (Scops) japonicus, *Temm. et Schl. Fauna Jap.* t. 9.
Scops senegalensis, *Swains. B. of W. Afr.* i. p. 127.
Scops capensis, *A. Smith, Cat. S. Afr. Mus.* p.
Otus (Scops) africana, *Temm. et Schl. Fauna Jap.* p. 27.
Ephialtes scops, *Keys. & Bl. Wirbelth. Eur.* p. 33.
Otus scops, *Schleg. Rev. Crit. des Ois. d'Eur.* p. 14.
The Little-eared Owl, *Mont. Orn. Dict. Suppl. App.*
Scops-eared Owl, *Selby, Brit. Orn.* i. p. 56; *Yarr. Brit. B.* 2 edit. i. p. 120, fig.

*Pl. enl.* 436; *Gould, B. of Eur.* pl. 41.

*a.* Great Britain. Purchased of Mr. Gould.

## 2. BUBO.

Bubo, *Sibb. Scot. Illustr.* lib. iii. p. 15; *Swains. Faun. Bor. Amer.* ii. p. 82 (1831).
Asio, *Briss. Orn.* i. p. 477 (1760); *Swains. Classif. of B.* ii. p. 217 (1837).
Heliaptex, *Swains. Classif. of B.* ii. p. 217 (1837).
Ascalaphia, *I. Geoffr. Mem. du Mus.* (1830).
Urrua, *Hodgs. Journ. A. S. B.* (1837), p. 372.
Mesomorpha, *Hodgs. Journ. A. S. B.* (1841) p. 28.
Huhúa, *Hodgs. Journ. A. S. B.* (1837) p. 362.
Etoglaux, *Hodgs. Journ. A. S. B.* (1841) p. 28.

## a. Bubo.

### 1. Bubo maximus. The great eared Owl.

Bubo maximus (*Sibb.*) *Flem. Brit. An.* p. 57; *Jenyns, Man. B. Vert. An.* p. 90; *Macgill. Hist. Brit. B.* iii. p. 428; *Eyton, Cat. Brit. B.* p. 7; *Pr. Bonap. Geogr. Comp. List of B.* p. 6; *Keys. & Bl. Wirbelth. Eur.* p. 33; *G. R. Gray, Gen. of B.* i. p. 37.
Strix bubo, *Linn. S. N.* i. 131; *Temm. Man. d'Orn.* 1815, p. 43; *Naum. Vög. Deuts.* (1822) i. p. 440, t. 44.
Asio bubo, *Swains. Classif. of B.* ii. p. 217.
Bubo atheniensis, *Daud. Tr. d'Orn.* ii. p. 209.
Bubo europæus, *Less. Tr. d'Orn.* p. 115, t. 17, f. 1.
Strix scandiaca, *Linn. Faun. Suec.* No. 70.
Bubo albus, *Daud. Tr. d'Orn.* ii. p. 210.
Bubo nudipes, *Daud. Tr. d'Orn.* ii. p. 209?
Bubo germanicus, *Brehm, Vög. Deuts.* i. p. 119.
Bubo septentrionalis, *Brehm, Vög. Deuts.* i. p. 120, t. 9, f. 1.
Otus bubo, *Schleg. Rev. Crit. des Ois. d'Eur.* p. 13.
The great eared Owl, *Bew. Brit. B.* (1797) i. p. 45; *Mont. Orn. Dict.*
Eagle Owl, *Penn. Brit. Zool.* (1812) i. p. 254, fig.; *Yarr. Brit. B.* 2 edit. i. p. 114, fig.
Great horned or Eagle Owl, *Selby, Brit. Orn.* i. p. 50.
*Pl. enl.* 435; *Gould, B. of Eur.* pl. 37; *Edwards, Birds*, pl. 227.
(Several counties of England and once in Ireland).

## iii. *Syrniinæ.*

### 1. SYRNIUM.

Syrnium, *Sav. Descr. de l'Egypte, Hist. Nat.* i. p. 112 (1809).
Aluco, *Cuv. Kaup, Syst. der Eur. Thier.* p. 45 (1829).
Scotiaptex, *Swains. Classif of B.* ii. p. 216 (1837).
Ulula, *Cuv. Règ. An.* (1817) i. p. 329.
Ptynx, *Blyth* (1840).
Bulaca, *Hodgs. Journ. A. S. B.* (1837) p. 372.
Meseides, *Hodgs. Journ. A. S. B.* (1841) p. 28.

## a. SYRNIUM.

### 1. SYRNIUM ALUCO. The Tawny Owl.

Syrnium aluco, *Cuv. Règ. An.* (1817) i. p. 330; *Brehm, Vög. Deuts.* i. p. 116; *Jenyns, Man. B. Vert. An.* p. 92; *Pr. Bonap. Geogr. Comp. List of B.* p. 6; *G. R. Gray, Gen. of B.* i. p. 39.
Strix aluco, *Linn. S. N.* i. p. 130; *Temm. Man. d'Orn.* 1815, p. 50; *Naum. Vög. Deuts.* (1822) i. p. 473, t. 46, t. 47, f. 1; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 16.
Strix stridula, *Linn. S. N.* i. p. 133; *Leach, Syst. Cat. Mam. & B. B. M.* p. 11; *Flem. Brit. An.* p. 57.
Strix sylvatica, *Shaw, Gen. Zool.* vii. p. 253.
Syrnium ululans, *Sav. Descr. de l'Egypte, Hist. Nat.* i. p. 112.
Syrnium stridulum, *Brehm, Vög. Deuts.* i. p. 117; *Eyton, Cat. Brit. B.* p. 6.
Strix sylvestris, *Scop. Ann.* i. No. 13.
Strix alba, *Scop. Ann.* i. No. 14.
Strix noctua, *Scop. Ann.* i. No. 15.
Strix rufa, *Scop. Ann.* i. No. 16.
Ulula aluco, *Macgill. Hist. Brit. B.* iii. p. 438; *Keys. & Bl. Wirbelth. Eur.* p. 32.
The Tawny Owl, *Bew. Brit. B.* (1797) i. p. 53, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 266; *Selby, Brit. Orn.* i. p. 62; *Yarr. Brit. B.* 2 edit. i. p. 138, fig.

*Pl. enl.* 441, 437; *Gould, B. of Eur.* pl. 47.

*a*. Wiltshire. From Col. Montagu's collection.
*b, c*. Carmarthenshire. From Col. Montagu's collection.
*d*. Devonshire. Presented by Sir W. Ellford, Bart.
*e*. Chick. From Mr. Bullock's museum.
*f*. Cambridgeshire. Young. From Mr. J. Baker's collection.
*g*. Sternum. England. Presented by T. Ingall, Esq.
*h*. Sternum. England. Presented by John Ray, Esq.

## 2. OTUS.

Otus, *Cuv. Comp. Anat.* i. *Sec. Tab. Classif. des Ois.* (1797—1800).
Brachyotus, *Gould, Proc. Z. S.* (1837) p. 10.
Nyctalops, *Wagl. Isis* (1832) p. 1221.
Asio, *Swains. Faun. Bor. Amer.* ii. p. 72 (1831); *Macgill. Hist. Brit. B.* iii. p. 450 (1840).
Ægolius, *Keys. & Bl. Wirbelth. Eur.* p. 32 (1840).

## a. Otus.

### 1. Otus vulgaris. The long-eared Owl.

Otus vulgaris, *Flem. Brit. An.* p. 60; *Hodgs. Journ. A. S. B.* (1837) p. 369; *Jenyns, Man. B. Vert. An.* p. 91; *Eyton, Cat. Brit. B.* p. 5; *Pr. Bonap. Geogr. Comp. List of B.* p. 7; *G. R. Gray, Gen. of B.* i. p. 40.
Strix otus, *Linn. S. N.* i. p. 134; *Pl. enl.* 22; *Naum. Vög. Deuts.* (1822) i. p. 451, t. 45, f. 1; *Temm. Man. d'Orn.* 1815, p. 44.
Strix soloniensis, *Gmel. S. N.* i. p. 293.
Otus europæus, *Steph. Gen. Zool.* xiii. p. 57.
Bubo otus, *Boie, Isis* (1822), p. 549.
Otus communis, *Less. Tr. d'Orn.* p. 110.
Strix (Asio) otus, *Richard. & Sw. Faun. Bor. Amer. Birds*, p. 72.
Otus sylvestris, *Brehm, Vög. Deuts.* i. p. 121.
Otus arboreus, *Brehm, Vög. Deuts.* i. p. 122.
Otus gracilis, *Brehm, Vög. Deuts.* i. p. 123, t. 9, f. 2.
Otus americanus, *Pr. Bonap. Geogr. Comp. List of B. Eur. and N. Amer.* p. 7.
Otus Wilsonianus, *Less. Tr. d'Orn.* p. 110.
Asio otus, *Macgill. Hist. Brit. B.* iii. p. 453.
Otus asio, *Leach, Syst. Cat. Mam. and B. B. M.* p. 11.
Ægolius otus, *Keys. & Bl. Wirbelth. Eur.* p. 32.
The Long-eared Owl, *Bew. Brit. B.* (1797) i. p. 46, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 258, pl. xxxi.; *Selby, Brit. Orn.* i. p. 52; *Yarr. Brit. B.* 2 edit. i. p. 124, fig.

*Gould, B. of Eur.* pl. 39.

*a.* Oxfordshire. Male. From Col. Montagu's collection.
*b.* Great Britain. Female. Presented by J. Warniford, Esq.
*c.* Great Britain.
*d.* Great Britain. Variety.
*e.* Sternum. England. Presented by T. Ingall, Esq.
*f.* Sternum. England. Presented by John Ray, Esq.

## b. Brachyotus.

### 2. Otus brachyotus. The short-eared Owl.

Otus brachyotus, *Boie, Isis* (1822), p. 549; *Hodgs. Journ. A. S. B.* (1837) p. 369; *Flem. Brit. An.* p. 56; *Jenyns, Man. B. Vert. An.* p. 92; *Naum. Vög. Deuts.* (1822) i. p. 459, t. 45, f. 2; *Eyton, Cat. Brit. B.* p. 6; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 14; *G. R. Gray, Gen. of B.* i. p. 40.

Strix brachyotus, *Gmel. S. N.* i. 289; *Temm. Man. d'Orn.* 1815, p. 46.
Otus ulula, *Cuv. Règ. An.* (1817) i. p. 328.
Strix ægolius, *Pall. Zoogr.* i. p. 309.
Strix ulula, *Pall. Zoogr.* i. p. 322.
Strix accipitrina, *Pall. It.* i. p. 455.
Strix caspia, *Shaw, Gen. Zool.* vii. p. 272.
Otus palustris, *Brehm, Vög. Deuts.* i. p, 124; *Gould, Voy. of Beagle, Birds*, p. 33.
Otus agrarius, *Brehm, Vög. Deuts.* i. p. 124.
Brachyotus palustris, *Gould, Bonap. Geogr. Comp. List B. of Eur. and N. Amer.* p. 7.
Strix arctica, *Sparrm. Mus. Carls.* t. 51.
Strix tripennis, *Schranks, Faun. Boica*, p. 112.
Strix palustris, *Smies. Vög.*
Strix brachyura, *Nils. Faun. Suec.* i. p. 62.
Strix (Asio) brachyotus, *Richard. and Sw. Faun. Bor. Amer. Birds*, p. 75.
Asio brachyotus, *Macgill. Hist. Brit. B.* iii. p. 461.
Otus microcephalus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 11.
Ægolius brachyotus, *Keys. & Bl. Wirbelth. Eur.* p. 32.
The Short-eared Owl, *Bew. Brit. B.* (1797) i. p. 48, fig., p. 50, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 260, pl. xxxii.; *Selby, Brit. Orn.* i. p. 54; *Yarr. Brit. B.* 2 edit. i. p. 128, fig.
*Pl. enl.* 438; *Gould, B. of Eur.* pl. 40.

*a*. Gloucestershire. From Col. Montagu's collection.
*b*. Great Britain. From Col. Montagu's collection.
*c*. Great Britain.
*d—f*. Hills of Offed, Orkney. Young. From Mr. J. Baker's collection.
*g*. Hills of Offed. Male. From Mr. J. Baker's collection.
*h*. London Market. Female. From Mr. J. Baker's collection.
*i*. Trachea. England.
*j*. Sternum. England. Presented by T. Ingall, Esq.
*k*. Sternum. England. Presented by John Ray, Esq.

## iv. *Striginæ*.

### 1. STRIX.

Strix, *Linn. Nat. Syst.* (1735).
Aluco, *Flem. Phil. of Zool.* ii. p. 236 (1822).
Hybris, *Nitzsch, Pterylog.* p. 110 (1840).
Stridula, *Sel. Longch.* (1842).

### 1. Strix flammea. The Barn Owl.

Strix flammea, *Linn. Syst. Nat.* i. 133; *Temm. Man. d'Orn.* 1815, p. 52; *Leach, Syst. Cat. Mam. & B. B. M.* p. 11; *Brehm, Vög. Deuts.* i. p. 106; *Jenyns, Man. B. Vert. An.* p. 92; *Naum. Vög. Deuts.* (1822) i. p. 483, t. 47, f. 2; *Macgill. Hist. Brit. B.* iii. p. 473; *Eyton, Cat. Brit. B.* p. 6; *Pr. Bonap. Geogr. Comp. List of B.* p. 7; *Keys. & Bl. Wirbelth. Eur.* p. 31; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 15; *G. R. Gray, Gen. of B.* i. p. 41.

Strix guttata, *Brehm, Vög. Deuts.* i. p. 106, t. 7, f. 3.

Aluco flammeus, *Flem. Brit. An.* p. 57.

The White Owl, *Bew. Brit. B.* (1797) i. p. 51, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 263.

Barn or White Owl, *Selby, Brit. Orn.* i. p. 60; *Yarr. Brit. B.* 2 edit. i. p. 133, fig.

*Pl. enl.* 440; *Gould, B. of Eur.* pl. 36.

*a*. Devonshire. From Col. Montagu's collection.
*b*. Combe Wood. Presented by Mr. Leadbeater.
*c*. Epping. Presented by Henry Doubleday, Esq.
*d*. Cambridgeshire. From Mr. J. Clark's collection.
*e*. Devonshire. Young.
*f*, *g*. Cambridgeshire. Young. Presented by Mr. J. Baker.
*h*. Sternum. England. Presented by T. Ingall, Esq.
*i*. Sternum. England. Presented by John Ray, Esq.

# Order II. PASSERES.

Passeres, *Linn.* (1735); *Lath.* (1790); *Cuv.* (1795—1796).
Picæ, pt. *Linn.* (1735); *Lath.* (1790).
Hymenopodes, *Mœhring* (1752).
Scansores, pt. *Cuv.* (1799—1800); *Illig.* (1811); *Cabanis* (1847).
Ambulatores, *Illig.* (1811).
Chelidones—Alcyones—Coraces—Canori—Passerini—Scansores, pt. *Temm.* (1815).
Sylvicolæ, anisodactyli—S. zygodactyli, pt. *Vieill.* (1816).
Anisodactyli — Insectivores — Omnivores — Granivores, *Temm.* (1820).
Passeri, *Ranz.* (1823).
Insessores, *Vigors* (1826).
Scansores, pt.—Oscines, *Keys. & Bl.* (1840).
Strisores—Clamatores, pt. *Cabanis* (1847).

## *Tribe I. FISSIROSTRES.*

Passeres, pt. *Linn.* (1735); *Mœhr.* (1752).
Picæ, pt. *Linn.* (1735).
Accipitres, pt. *Mœhr.* (1752).
Plumipedes, pt.—Fissipedes isodactyles—F. anisodactyles, conico-subulirostres, pt.—Anomalipedes, pt. *Schæff.* (1774).
Scutipedes, pt.—Negliges, pt.—Brevipedes, *Scop.* (1777).
Picæ, pt. *Lath.* (1790).
Planirostres—Tenuirostres, pt.—Cuneirostres, pt.—Lævirostres, pt. *Cuv.* (1799—1800).
Hiantes—Coraces, pt.—Canori, pt.—Dentirostres, pt.—Serrati, pt.—Amphiboli, pt.—Angulirostres—Syndactyli, *Illig.* (1811).
Chelidones—Alciones, *Temm.* (1815).
Chelidones—Baccivori, pt.—Prionites, pt.—Barbati, pt.—Pelmatodes—Aurepli, *Vieill.* (1816).
Fissirostres—Syndactyles—Scansores, pt.—Conirostres, pt.—Dentirostres, pt. *Cuv.* (1817).
Omnivores, pt.—Insectivores, pt.—Zygodactyli, pt. *Temm.* (1820).
Pogonofori, pt.—Sindactili—Pelmatodi—Ifalti, pt.—Plereoramfi—Euristomi, pt.—Chelidonii—Piezoramfi, *Ranz.* (1823).
Fissirostres—Conirostres, pt.—Scansores, pt. *Vigors* (1826).
Heterodactyles, pt. *Less.* (1831).

Gregarii, pt.—Serrati, pt.—Sagittilingues—Amphiboli, pt.—Anguli-rostres, *Pr. Bonap.* (1831).
Oscines, pt.—Scansores, pt. *Keys. & Bl.* (1840).
Volitatrices—Jaculatrices—Excurtrices, pt. *Macgill.* (1840).
Macrochires—Oscines, pt.—Clamatores, pt. *Cabanis* (1847).

## *Sub-Tribe* 1. *FISSIROSTRES NOCTURNÆ.*

## FAM. I. CAPRIMULGIDÆ.

### i. *CAPRIMULGINÆ.*

### 1. CAPRIMULGUS.

Caprimulgus, *Linn. S. N.* (1756).
Hirundo, pars, *Linn. S. N.* (1735).
Nyctichelidon, *Renn. Mont. Orn. Dict.* (1831), p. 342.
Antrostomus, *Gould, Bonap. Comp. List of Birds* (1838).
Hydropsalis, *Wagl. Isis* (1832), p. 1222.
Psalurus, *Swains. Classif. of B.* ii. p. 339 (1837).

#### a. CAPRIMULGUS.

1. CAPRIMULGUS EUROPÆUS. The European Goatsucker.

Caprimulgus europæus, *Linn. S. N.* i. p. 286; *Temm. Man. d'Orn.* 1815, p. 273; *Leach, Syst. Cat. Mam. & B. B. M.* p. 19; *Flem. Brit. An.* p. 62; *Jenyns, Man. B. Vert. An.* p. 160; *Naum. Vög. Deuts.* (1833) vi. p. 141, t. 148; *Macgill. Hist. Brit. B.* iii. p. 633; *Eyton, Cat. Brit. B.* p. 27; *Pr. Bonap. Geogr. Comp. List. of B.* p. 8; *Keys. & Bl. Wirbelth. Eur.* p. 33; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 20.
Caprimulgus punctatus, *Meyer, Taschenb. Deuts.* i. p. 284; *Brehm, Vög. Deuts.* i. p. 130.
Caprimulgus maculatus, *Brehm, Vög. Deuts.* i. p. 131, t. 10, f. 1.
Caprimulgus vulgaris, *Vieill.*
Nyctichelidon europæus, *Renn. Mont. Orn. Dict.* p. 335.
The Night-jar, *Bew. Brit. B.* (1797) i. p. 262, fig.; *Yarr. Brit. B.* 2 edit. ii. p. 270, fig.

European Goatsucker, *Mont. Orn. Dict.*; *Selby, Brit. Orn.* i. p. 136.
Nocturnal Goatsucker, *Penn. Brit. Zool.* (1812), p. 566, pl. lxvi. *Pl. enl.* 193; *Gould, B. of Eur.* pl. 51.

*a*. Devonshire. Male. From Col. Montagu's collection.
*b*. Devonshire. Female. From Col. Montagu's collection.
*c*—*e*. Cambridgeshire. Males. Presented by Mr. J. Baker.
*f*. Cambridgeshire. Female. Presented by Mr. J. Baker.
*g*, *h*. Cambridgeshire. Young. Presented by Mr. J. Baker.
*i*. Sternum. England. Presented by John Ray, Esq.

## *Sub-Tribe* 2. *FISSIROSTRES DIURNÆ*.

## Fam. II. HIRUNDINIDÆ.

### i. *Cypselinæ*.

### 1. CYPSELUS.

Cypselus, *Ill. Prod. Mam.* p. 229 (1811).
Apus, *Scop. Introd. Hist. Nat.* p. 483 (1777).
Micropus, *Meyer & Wolf. Tasch. Deuts. Vög.* i. p. 280 (1810).
Brachypus, *Meyer, Vög. Liv. und Esthl.*
Tachornis, *Gosse, B. of Jam.* p. 58 (1848).

#### a. Cypselus.

##### 1. Cypselus melba. The White-bellied Swift.

Hirundo melba, *Linn. S. N.* i. p. 345.
Cypselus melba, *Ill. Prod. Mam. & Av.* p. 230; *Naum. Vög. Deuts.* (1833) vi. p. 115, t. 147, f. 1; *Brehm, Vög. Deuts.* p. 134; *Macgill. Hist. Brit. B.* iii. p. 611; *Pr. Bonap. Geogr. Comp. List of B.* p. 8; *Keys. & Bl. Wirbelth. Eur.* p. 33; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 20; *G. R. Gray, Gen. of B.* i. p. 54.
Apus melba, *Cuv. Reg. An.* (1817) i. p. 373.
Micropus melba, *Boie, Isis* (1844), p. 165.
Hirundo alpina, *Scop. Ann.* i. p. 166.

Cypselus alpinus, *Temm. Man. d'Orn.* 1815, p. 270; *Brehm, Vög. Deuts.* i. p. 134; *Jenyns, Man. B. Vert. An.* p. 159; *Eyton, Brit. B.* p. 26.
Micropus alpinus, *Meyer & Wolf, Taschenb. Deuts.* i. p. 282.
Cypselus alpinus, africanus, *Temm. Man. d'Orn.* 1815, p. 270.
Cypselus gutturalis, *Vieill. N. Dict. d'Hist. Nat.* xix. p. 422.
Hirundo gularis, *Steph. Gen. Zool.* x. p. 99.
The White-bellied Swift, *Eyton, Hist. R. Brit. B.* p. 17.
The Alpine Swift, *Yarr. Brit. B.* 2 edit. ii. p. 266, fig.

*Edward's Birds*, pl. 27; *Levaill. Ois. d'Afr.* t. 243.

(Isle of Thanet, Norfolk, Essex and Ireland).

### 2. Cypselus apus. The common Swift.

Hirundo apus, *Linn. S. N.* i. p. 344.
Apus ——— ? *Cuv. Règ. An.* (1817) i. p. 373.
Cypselus apus, *Ill. Prod. Mamm. & Av.* p. 230; *Brehm, Vög. Deuts.* i. p. 136; *Flem. Brit. An.* p. 61; *Jenyns, Man. B. Vert. An.* p. 159; *Naum. Vög. Deuts.* (1833) i. p. 123, t. 147, f. 2; *Eyton, Cat. Brit. B.* p. 26; *Pr. Bonap. Geogr. Comp. List of B.* p. 1; *Keys. & Bl. Wirbelth. Eur.* p. 33; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 19; *G. R. Gray, Gen. of B.* i. p. 54.
Cypselus vulgaris, *Steph. Gen. Zool.* x. p. 72.
Micropus murarius, *Meyer & Wolf, Tasch. Deuts.* i. p. 281.
Brachypus murarius, *Meyer, Vög. Liv. und Esthl.* p. 143.
Micropus apus, *Boie, Isis* (1844) p. 165.
Cypselus murarius, *Temm. Man. d'Orn.* 1815, p. 271; *Brehm, Vög. Deuts.* p. 135; *Macgill. Hist. Brit. B.* iii. p. 614.
Cypselus caffer, *Licht. Cat. Dupl. Berl. Mus.* p. 68.
Cypselus niger, *Leach, Syst. Cat. Mam. & B. B. M.* p. 19.
The Swift, *Bew. Brit. B.* (1797) i. p. 259, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 550.
The Common Swift, *Selby, Brit. Orn.* i. p. 133; *Yarr. Brit. B.* 2 edit. ii. p. 260.

*Pl. enl.* 242, f. 1.

*a.* London. Presented by J. F. Stephens, Esq.
*b.* Hampshire. Female. Presented by Mr. G. L. Scott.
*c.* Turnham Green. From Mr. J. Baker's collection.
*d.* Sternum. England. Presented by T. Ingall, Esq.

## 2. ACANTHYLIS.

Acanthylis, *Boie*, *Isis* (1826), p. 971.
Chætura, *Steph. Gen. Zool.* xiii. p. 76 (1825).
Hirund-apus, *Hodgs. Journ. A. S. B.* (1836) p. 780.
Hemiprocne, *Nitzsch*, *Pterylog.* p. 123 (1840).
Pallene, *Less. Compt. Buff.* viii. p. 496 (1837).

### a. HIRUND-APUS.

1. ACANTHYLIS CAUDACUTA. The Australian spine-tailed Swallow.

Acanthylis caudacuta, *G. R. Gray*, *Ann. of Nat. Hist.* (1843) p. 194 ? *Newm. Zoologist*, iv. p. 1492, fig.
Hirundo caudacuta, *Lath. Ind. Orn. Suppl.* p. lvii. ?
Australian Spine-tailed Swallow, *Newm. Zool.* iv. 1492.

(In the neighbourhood of Colchester).

## ii. *HIRUNDININÆ.*

## 3. HIRUNDO.

Hirundo, *Linn. Syst. Nat.* (1735).
Cecropis, *Boie*, *Isis*, 1826, p. 971.
Herse, *Less. Compl. Buff.* viii. p. 496 (1837).

### a. HIRUNDO.

1. HIRUNDO RUSTICA. The Chimney Swallow.

Hirundo rustica, *Linn. S. N.* i. p. 343; *Temm. Man. d'Orn.* 1815, p. 265; *Leach*, *Syst. Cat. Mam. & B. B. M.* p. 19; *Flem. Brit. An.* p. 60; *Jenyns*, *Man. B. Vert. An.* p. 157; *Naum. Vög. Deuts.* (1833) vi. p. 49, t. 145, f. 1; *Macgill. Hist. Brit. B.* iii. p. 558; *Eyton*, *Cat. Brit. B.* p. 26; *Pr. Bonap. Geogr. Comp. List of B.* p. 9; *Keys. & Bl. Wirbelth. Eur.* p. 61; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 18; *G. R. Gray*, *Gen. of B.* i. p. 57.
Hirundo domestica, *Pall. Zoogr.* i. p. 528.
Cecropis rustica, *Boie*, *Isis* (1826), p. 971; *Brehm*, *Vög. Deuts.* p. 138.
Cecropis pagorum, *Brehm*, *Vög. Deuts.* p. 138.
The Chimney Swallow, *Bew. Brit. B.* (1797) i. p. 252, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 543, pl. lxv. f. upp.; *Selby*, *Brit. Orn.* i. p. 126.
The Swallow, *Yarr. Brit. B.* 2 edit. ii. p. 231, fig.

*Pl. enl.* 543, f. 1; *Gould, B. Eur.* pl. 54.

*a*. Great Britain. Presented by Maj.-Gen. T. Hardwicke.
*b*. Cambridgeshire. Presented by Mr. J. Baker.
*c*. England. White variety.
*d*. Hayling Island. White variety. Presented by Alfred Miller, Esq.
*e*. Cambridgeshire. Young. From Mr. J. Baker's collection.

## 2. PROGNE.

Progne, *Boie, Isis* (1826), p. 971.

### 1. PROGNE PURPUREA. The purple Swallow.

Hirundo purpurea, *Linn. S. N.* i. p. 344.
Hirundo violacea, *Gmel. S. N.* i. p. 1026.
Hirundo cærulea, *Vieill. Ois. d'Amér. Sept.* t. 26, 27.
Hirundo subis, *Linn. S. N.* i. p. 344.
Progne purpurea, *Boie, Isis* (1826), p. 971.
Hirundo versicolor, *Vieill. N. Dict. d'Hist. Nat.* x. 509.
Hirundo ludoviciana, *Cuv. Règ. Anim.* (1817) p. 374.
Hirundo (Cecropis) violacea, *Less. Compl. Buff.* viii. p. 498.
Progne purpurea, *Boie, Isis* (1826), p. 971; *Pr. Bonap. Geogr. Comp. List of B.* p. 8; *G. R. Gray, Gen. of B.* i. p. 59.
American purple Martin, *Yarr. Brit. B.* 2 edit. p. 257, fig.

*Catesby's Carol.* pl. 51; *Pl. enl.* 722; *Edward's Birds*, pl. 120.

(Paddington and county of Dublin).

## 3. COTYLE.

Cotyle, *Boie, Isis* (1822), p. 550.
Biblis, *Less. Compl. Buff.* viii. p. 495 (1837).

### 1. COTYLE RIPARIA. The Sand Martin.

Cotyle riparia, *Boie, Isis* (1822), p. 550; *Brehm, Vög. Deuts.* i. p. 143; *Pr. Bonap. Geogr. Comp. List of B.* p. 9; *G. R. Gray, Gen. of B.* i. p. 60.
Hirundo riparia, *Linn. S. N.* i. p. 344; *Temm. Man. d'Orn.* 1815, p. 267; *Leach, Syst. Cat. Mam. and B. B. M.* p. 19; *Flem. Brit. An.* p. 61; *Jenyns, Man. B. Vert. An.* p. 158; *Naum. Vög. Deuts.* (1833), i. p. 100, t. 146, f. 1, 2; *Macgill. Hist. Brit. B.* iii. p. 595; *Eyton. Cat. Brit. B.* p. 26; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 19.

Cotyle fluviatilis, *Brehm, Vög. Deuts.* i. p. 142, t. x. f. 5.
Cotyle microrhynchos, *Brehm, Vög. Deuts.* i. p. 143.
Hirundo (Cotyle) riparia, *Keys. & Bl. Wirbelth. Eur.* p. 61.
The Sand Martin, *Bew. Brit. B.* (1797), i. p. 258; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812), i. p. 549; *Selby, Brit. Orn.* i. p. 131; *Yarr. Brit. B.* 2 edit. ii. p. 251, fig.

*Pl. enl.* 543, f. 2; *Gould, B. of Eur.* pl. 58.

*a.* Wiltshire. From Col. Montagu's collection.
*b.* Bushy Hall. From Mr. J. Baker's collection.

## 4. CHELIDON.

Chelidon, *Boie, Isis* (1822), p. 550.

### 1. Chelidon urbica. The Martin Swallow.

Hirundo urbica, *Linn. S. N.* i. p. 344; *Temm. Man. d'Orn.* 1815, p. 266; *Flem. Brit. An.* p. 61; *Jenyns, Man. B. Vert. An.* p. 159; *Naum. Vög. Deuts.* (1833), i. p. 73, t. 145, f. 2; *Macgill. Hist. Brit. B.* iii. p. 573; *Eyton, Cat. Brit. B.* p. 26; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 19.
Chelidon urbica, *Boie, Isis* (1822), p. 550; *Brehm, Vög. Deuts.* i. p. 139, t. x. f. 4; *Pr. Bonap. Geogr. Comp. List of B.* p. 8; *G. R. Gray, Gen. of B.* i. p. 60.
Hirundo lagopoda, *Pall. Zoogr.* i. p. 532.
Chelidon fenestrarum, *Brehm, Vög. Deuts.* i. p. 140.
Chelidon rupestris, *Brehm, Vög. Deuts.* i. p. 140.
Hirundo domestica, *Leach, Syst. Cat. Mam. and B. B. M.* p. 19.
Hirundo (Chelidon) urbica, *Keys. & Bl. Wirbelth. Eur.* p. 61.
The Martin, *Bew. Brit. B.* (1797), i. p. 255, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812), i. p. 547; *Selby, Brit. Orn.* i. p. 129; *Yarr. Brit. B.* 2 edit. ii. p. 245, fig.

*Pl. enl.* 542, f. 2; *Gould, B. of Eur.* pl. 57.

*a.* Cambridgeshire. Presented by Mr. J. Baker.
*b.* Cambridgeshire.
*c.* Devonshire. From Col. Montagu's collection.
*d.* Devonshire. Var. white. From Col. Montagu's collection.

## Fam. III. CORACIIDÆ.

### i. *Coraciinæ.*

### 1. CORACIAS.

Coracias, *Linn. S. N.* (1735).
Galgulus, *Briss. Orn.* ii. p. 63 (1760).

1. Coracias garrula. The garrulous Roller.

Coracias garrula, *Linn. S. N.* i. p. 159; *Temm. Man. d'Orn.* 1815, p. 78; *Brehm, Vög. Deuts.* i. p. 160, t. xi. f. 5; *Flem. Brit. An.* p. 88; *Jenyns, Man. B. Vert. An.* p. 156; *Naum. Vög. Deuts.* (1822), ii. p. 158, t. 60; *Macgill. Hist. Brit. B.* iii. p. 540; *Eyton, Cat. Brit. B.* p. 25; *Pr. Bonap. Geogr. Comp. List of B.* p. 9; *Keys. & Bl. Wirbelth. Eur.* p. 35; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 56; *G. R. Gray, Gen. of B.* i. p. 62.
The Garrulous Roller, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 300, pl. xxxviii.; *Selby, Brit. Orn.* i. p. 86.
The Roller, *Bew. Brit. B.* (1797) i. p. 85, fig.; *Yarr. Brit. B.* 2 edit. ii. p. 211, fig.

*Pl. enl.* 486; *Levaill. Ois. de Parad.* t. 32, 33; *Gould, B. of Eur.* pl.

*a.* Great Britain.

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## Fam. IV. ALCEDINIDÆ.

### i. *Alcedininæ.*

### 1. ALCEDO.

Alcedo, *Linn. S. N.* (1756).
Ispida (pars), *Linn. S. N.* (1735).
Corythornis, *Kaup, Verhandl. Darmst.* (1848).
Ispidina, *Kaup, Verhandl. Darmst.* (1848).

a. Alcedo.

1. Alcedo ispida. The common Kingfisher.

Alcedo ispida, *Linn. S. N.* i. p. 179; *Temm. Man. d'Orn.* 1815, p. 262; *Leach, Syst. Cat. Mam. & B. B. M.* p. 26; *Brehm, Vög. Deuts.* i. p. 148; *Flem. Brit. An.* p. 90; *Jenyns, Man. B. Vert. An.* p. 157; *Naum. Vög. Deuts.* (1826) v. p. 479, t. 144; *Macgill.*

*Hist. Brit. B.* iii. p. 671; *Eyton, Cat. Brit. B.* p. 28; *Pr. Bonap. Geogr. Comp. List of B.* p. 9; *Keys. & Bl. Wirbelth. Eur.* p. 35; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 52; *G. R. Gray, Gen. of B.* i. p. 81.

Gracula Atthis, *Gmel. S. N.* i. p. 398.

Alcedo subispida, *Brehm, Vög. Deuts.* i. p. 149.

Alcedo advena, *Brehm, Vög. Deuts.* i. p. 150, t. xi. f. 2.

Common Kingfisher, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 326, pl. xlii. fig. low.; *Selby, Brit. Orn.* i. p. 121.

The Kingfisher, *Yarr. Brit. B.* 2 edit. ii. p. 223, fig.

*Pl. enl.* 77; *Kittl. Kupf. Vög.* t. 29, f. 1; *Gould, B. of Eur.* pl. 61.

*a*. Devonshire. From Col. Montagu's collection.
*b*, *c*. Great Britain.
*d*, *e*, Cambridgeshire. Young. Presented by Mr. J. Baker.
*f*. Sternum. England. Presented by T. Ingall, Esq.
*g*. Sternum. England. Young. Presented by T. Ingall, Esq.

### 2. CERYLE.

Ceryle, *Boie, Isis*, 1828, p. 316.
Ispida, *Swains. Classif. of B.* ii. p. 336 (1837).

#### 1. CERYLE ALCYON. The belted Kingfisher.

Alcedo alcyon, *Linn. S. N.* i. p. 180; *Thompson, Ann. & Mag. Nat. Hist.* 1847, p. 313.
Ceryle alcyon, *Boie, Isis* (1828), p. 316.
Ispida alcyon, *Swains. Classif. of B.* ii. p. 336.

*Wils. Amer. Orn.* pl. 23, f. 1; *Pl. enl.* 715.

(Ireland).

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## FAM. V. MEROPIDÆ.

### i. *MEROPINÆ*.

### 1. MEROPS.

Merops, *Linn. S. N.* (1756).
Ispida (pars), *Linn. S. N.* (1735).
Apiaster, *Briss. Orn.* iv. p. 532 (1760).

1. MEROPS APIASTER. The common Bee-eater.

Merops apiaster, *Linn. S. N.* i. p. 182; *Temm. Man. d'Orn.* 1815, p. 260; *Brehm, Vög. Deuts.* i. p. 147; *Flem. Brit. An.* p. 90; *Jenyns, Man. B. Vert. An.* p. 156; *Naum. Vög. Deuts.* (1826) v. p. 462, t. 143; *Macgill. Hist. Brit. B.* iii. p. 685; *Eyton, Cat. Brit. B.* p. 28; *Pr. Bonap. Geogr. Comp. List of B.* p. 9; *Keys. & Bl. Wirbelth. Eur.* p. 35; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 52; *G. R. Gray, Gen. of B.* i. p. 86.
Merops chrysocephalus, *Gmel. S. N.* i. p. 463.
Merops schæghagha, *Forsk. Faun. Arab.* 1.
Merops hungariæ, *Brehm, Vög. Deuts.* i. p. 146, t. xi. f. 1.
Bee-eater, *Mont. Orn. Dict.*; *Yarr. Brit. B.* 2 edit. ii. p. 217, fig.
Common Bee-eater, *Penn. Brit. Zool.* (1812) i. p. 339; *Selby, Orn. Dict.* i. p. 123.

*Pl. enl.* 938; *Gould, B. of Eur.* pl. 59.

*a.* ————. Presented by Maj.-Gen. T. Hardwicke.
*b.* Devonshire. Presented by Addis Archer, Esq.

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## *Tribe II. TENUIROSTRES.*

Picæ, pt. *Linn.* 1735; *Mæhr.* (1752); *Lath.* (1790).
Plumipedes, pt. *Schæff.* (1774).
Fissipedes anisodactyles, cuneirostres—F. a. filirostres—F. a. falcirostres, *Schæff.* (1774).
Scutipedes, pt.—Negliges, pt. *Scop.* (1777).
Tenuirostres, pt.—Dentirostres, pt.—Plenirostres, pt. *Cuv.* (1799—1800).
Tenuirostres—Gregarii, pt.—Pygarrhichi—Suspensi—Gallinacei, pt. *Illiger* (1811).
Anthomysi—Epopsides—Anerpontes—Lyriferi, *Vieill.* (1816).
Scansores, pt. *Temm.* (1815).
Tenuirostres—Conirostres, pt.—Dentirostres, pt. *Cuv.* (1817).
Anisodactyli—Insectivores, pt. *Temm.* (1820).
Anerponti—Antomisi—Epopsidi—Rafioramfi—Metrioramfi, *Ranz.* (1823).
Tenuirostres—Scansores, pt.—Rasores, pt. *Vigors* (1826).
Fissirostres, conirostres anisodactyles, pt. *Less.* (1831).
Tenuirostres—Anthomyzi—Canori, pt. *Pr. Bonap.* (1831).
Scansores, pt.—Oscines, pt. *Keys. & Bl.* (1840).
Raptatrices, *Macgill.* (1840).
Clamatores, pt.—Oscines, pt. *Cabanis* (1847).

# Fam. I. UPUPIDÆ.

## i. *Upupinæ.*

### 1. UPUPA.

Upupa, *Linn. S. N.* (1735).
? Fregilupus, *Less. Tr. d'Orn.* p. 323 (1831).

1. Upupa Epops. The common Hoopoe.

Upupa Epops, *Linn. S. N.* i. p. 183; *Temm. Man. d'Orn.* 1815, p. 256; *Leach, Syst. Cat. Mam. & B. B. M.* p. 26; *Brehm, Vög. Deuts.* i. p. 215; *Flem. Brit. An.* p. 89; *Jenyns, Man. B. Vert. An.* p. 153; *Naum. Vög. Deuts.* (1826) v. p. 437, t. 142; *Macgill. Hist. Brit. B.* iii. p. 41; *Eyton, Cat. Brit. B.* p. 27; *Pr. Bonap. Geogr. Comp. List of B.* p. 10; *Keys. & Bl. Wirbelth. Eur.* p. 35; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 52; *G. R. Gray, Gen. of B.* i. p. 90.
Upupa bifasciata, *Brehm, Vög. Deuts.* p. 215, t. xv. f. 2.
The Hoopoe, *Bew. Brit. B.* (1797) i. p. 123, fig.; *Selby, Brit. Orn.* i. p. 118; *Yarr. Brit. B.* 2 edit. ii. p. 175, fig.
Common Hoopoe, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 342, pl. xliii. fig. low.
*Pl. enl.* 52; *Gould, B. of Eur.* pl. 238.

*a.* Bigberry, Devonshire. From Col. Montagu's collection.

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# Fam. II. CERTHIDÆ.

## i. *Certhinæ.*

### 1. CERTHIA.

Certhia, *Linn. S. N.* (1735).

1. Certhia familiaris. The common Creeper.

Certhia familiaris, *Linn. S. N.* i. p. 184; *Temm. Man. d'Orn.* 1815, p. 252; *Leach, Syst. Cat. Mam. & B. B. M.* p. 26; *Flem. Brit. An.* p. 88; *Brehm, Vög. Deuts.* p. 209; *Jenyns, Man. B. Vert. An.* p. 152; *Naum. Vög. Deuts.* (1826) v. p. 398, t. 140; *Macgill. Hist. Brit. B.* iii. p. 33; *Eyton, Cat. Brit. B.* p. 27; *Pr. Bonap. Geogr. Comp. List of B.* p. 11; *Keys. & Bl. Wirbelth. Eur.* p. 47; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 47; *G. R. Gray, Gen. of B.* iii. p. 143.

Certhia scandulaca, *Pall. Zoogr.* i. p. 432.
Certhia macrodactyla, *Brehm, Vög. Deuts.* p. 208.
Certhia septentrionalis, *Brehm, Vög. Deuts.* p. 210, t. xv. f. 5.
Certhia brachydactyla, *Brehm, Vög. Deuts.* p. 210.
Certhia megarhynchos, *Brehm, Vög. Deuts.* p. 211.
The Creeper, *Bew. Brit. B.* (1797) i. p. 125, fig.
Common Creeper, *Mont. Orn. Dict.; Selby, Brit. Orn.* i. p. 116; *Yarr. Brit. B.* 2 edit. ii. p. 165, fig.
Familiar Creeper, *Penn. Brit. Zool.* (1812) i. p. 345, pl. xliii. fig. upp.

*Pl. enl.* 681, f. 1; *Gould, B. of Eur.* pl. 237.

*a.* Devonshire. Male. From Col. Montagu's collection.
*b.* Devonshire. Female. From Col. Montagu's collection.
*c, d.* Hoxne, Suffolk. Presented by the Rev. H. Kirby.
*e.* Skull. England. Presented by John Ray, Esq.

## ii. *Sittinæ.*

### 1. SITTA.

Sitta, *Linn. S. N.* (1735).
Orthorhynchus, *Horsf.*
Dendrophila, *Swains. Classif. of B.* ii. p. 318 (1837).

#### 1. Sitta europæa. The Nuthatch.

Sitta europæa, *Linn. S. N.* i. p. 177; *Temm. Man. d'Orn.* 1815, p. 249; *Leach, Syst. Cat. Mam. & B. B. M.* p. 25; *Flem. Brit. An.* p. 81; *Jenyns, Man. B. Vert. Anim.* p. 154; *Naum. Vög. Deuts.* (1826) i. p. 337, t. 139; *Macgill. Hist. Brit. B.* iii. p. 48; *Eyton, Cat. Brit. B.* p. 10; *Pr. Bonap. Geogr. Comp. List of B,* p. 10; *Keys. & Bl. Wirbelth. Eur.* p. 44; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 48.
Sitta cæsia, *Meyer, Taschenb. Deuts.* i. p. 128.
Sitta pinetorum, *Brehm, Vög. Deuts.* p. 205, t. xiv. f. 4.
Sitta foliorum, *Brehm, Vög. Deuts.* p. 206.
Sitta septentrionalis, *Brehm, Vög. Deuts.* p. 206?
Sitta advena, *Brehm, Vög. Deuts.* p. 207?
Sitta affinis, *Blyth, Journ. A. S. B.* xv. p. 288.
Nuthatch, *Bew. Brit. B.* (1797) i. p. 121, fig.; *Selby, Brit. Orn.* i. p. 113; *Yarr. Brit. B.* 2 edit. ii. p. 183, fig.
European Nuthatch, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812), p. 336, pl. xlii. fig. upp.

*Pl. enl.* 623, f. 1; *Gould, B. of Eur.* pl. 234.

*a.* Suffolk. Presented by the Rev. H. Kirby.

## iii. *Menurinæ*.

### 1. TROGLODYTES.

Troglodytes, *Vieill. Ois. d'Amer. Septr.* ii. p. 52 (1807).
Anorthura, *Rennie, Mont. Orn. Dict.* p. 6 (1831).
Thriothorus, *Vieill. Analyse, &c.*, p. 45 (1816).

#### a. Troglodytes.

##### 1. Troglodytes parvulus. The Common Wren.

Motacilla troglodytes, *Linn. S. N.* i. p. 337.
Sylvia troglodytes, *Lath. Ind. Orn.* ii. p. 547; *Temm. Man. d'Orn.* 1815, p. 127.
Troglodytes parvulus, *Koch, Baier. Zool.* i. p. 161; *Naum. Vög. Deuts.* (1822) iii. p. 725, t. 83, f. 4; *Keys. & Bl. Wirbelth. Eur.* p. 47; *G. R. Gray, Gen. of B.* ii. p. 158.
Troglodytes europæus, *Cuv.*; *Leach, Syst. Cat. Mam. & B. B. M.* p. 25; *Jenyns, Man. B. Vert. An.* p. 153; *Eyton, Cat. Brit. B.* p. 14; *Pr. Bonap. Geogr. Comp. List of B.* p. 11.
Troglodytes vulgaris, *Flem. Brit. An.* p. 73.
Troglodytes regulus, *Meyer.*
Troglodytes troglodytes (*Cuv.*), *Schleg. Rev. Crit. des Ois. d'Eur.* p. 44.
Troglodytes punctatus (*Koch*), *Boie, Isis*, 1822, p. 551.
Troglodytes domesticus, *Brehm, Vög. Deuts.* p. 454.
Troglodytes sylvestris, *Brehm, Vög. Deuts.* p. 455, t. xxiii. f. 6.
Anorthura communis, *Renn. Mont. Orn. Dict.* p. 570.
Anorthura troglodytes, *Macgill. Hist. Brit. B.* iii. p. 15.
The Wren, *Bew. Brit. B.* (1797) i. p. 227, fig.; *Penn. Brit. Zool.* (1812) p. 516; *Yarr. Brit. B.* 2 edit. ii. p. 169.
Common Wren, *Mont. Orn. Dict.*; *Selby, Brit. Orn.* i. p. 196.

*a*. Devonshire. Male. From Col. Montagu's collection.
*b*. Devonshire. Female. From Col. Montagu's collection.
*c*. Devonshire. Albino variety.
*d*, *e*. Cambridgeshire. Presented by Mr. J. Baker.
*f*, *g*. Cambridgeshire. Young. Presented by Mr. J. Baker.
*h*. Sternum. England. Presented by John Ray, Esq.
*i*. Skull. England. Presented by John Ray, Esq.

## *Tribe III. DENTIROSTRES.*

Passeres, pt. *Linn.* (1735), *Mœhr.* (1752).
Picæ, pt. *Mœhr.* (1752).
Accipitres, pt. *Linn.* (1760).
Plumipedes, pt. *Schæff.* (1774).
Fissipedes anisodactyles—Conico-convexirostres, pt.—F. a. conico-subulirostres, pt. *Schæff.* (1774).
Anomalipedes, pt. *Schæff.* (1774).
Scutipedes, pt.—Negliges, pt.—Chanteurs, pt. *Scop.* (1777).
Crenirostres—Conirostres, pt.—Subulirostres, *Cuv.* (1799—1800).
Gregarii, pt.—Canori—Passerini, pt.—Serrati, *Illiger* (1811).
Canori—Passerini—Coraces, pt. *Temm.* (1815).
Ægithali — Pericalles, pt. — Textores, pt.—Baccivori, pt.—Myiotheres—Colluriones—Canori—Anerpontes, pt—Antriades, *Vieill.* (1816).
Dentirostres—Conirostres, pt. *Cuv.* (1817).
Omnivores, pt.—Insectivores—Granivores, pt. *Temm.* (1820).
Plereoramfi, pt. — Ifanti, pt. — Euristomi, pt.—Piezoramfi, pt.—Egitali—Rafioramfi—Metrioramfi, pt.—Collurioni, *Ranz.* (1823).
Dentirostres—Conirostres, pt.—Scansores, pt. *Vigors* (1826).
Oscines, pt. *Keys. & Bl.* (1840).
Excurtrices, pt.—Cantatrices, *Macgill.* (1840).
Oscines—Clamatores, pt. *Cabanis* (1847).

## Fam. I. LUSCINIDÆ.

### i. *Luscininæ.*

#### 1. CALAMODYTA.

Calamodyta, *Mey. & Wolf.* (1815).
Acrocephalus, *Naum. Vögel. alte Ausg. Nachtr.* (1819).
Calamoherpe, *Boie, Isis* (1822), p. 972.
Salicaria, *Selby, Brit. Orn.* (1833).
Dumeticola, *Blyth, Journ. A. S. B.* (1845) p. 584.
Agrobates, *Jerd. Madr. Journ. Lit. Sci.* (1839).
Locustella, *Kaup, Naturl. Syst. der Eur. Thier.* p. 115 (1829).
Calamodus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 117 (1829).
Alsœus, *Kaup, Naturl. Syst.* p. 108 (1829).
Cettia, *Pr. Bonap. Geogr. Comp. List of B.* p. 11.
Pseudo-luscinia, *Pr. Bonap. Geogr. Comp. List of B.* p. 12 (1838).

Lusciniopsis, *Pr. Bonap. Fauna Italica*, p. (1842).
Iduna, *Keys. & Bl. Wirbelth. Eur.* p. 58 (1840).
Tribura, *Hodgs. Proc. Z. S.* (1845) p.
Lusciniola, *G. R. Gray, List of Gen. of B.* i. p. 28 (1841).
Hydrocopsichus, *Kaup, Naturl. Syst.* p. 121 (1829).
Sibilatrix, *Macgill. Hist. Brit. B.* ii. p. 399 (1839).
Potamodus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 123 (1829).

## a. LOCUSTELLA.

### 1. CALAMODYTA LOCUSTELLA. The Grasshopper Warbler.

Calamodyta locustella, *G. R. Gray, Gen. of B.* i. p. 172.
Sylvia locustella, *Lath. Ind. Orn.* ii. p. 515; *Temm. Man. d'Orn.* 1815, p. 129; *Leach, Syst. Cat. Mam. & B. B. M.* p. 23; *Jenyns, Man. B. Vert. An.* p. 106; *Naum. Vög. Deuts.* (1822) iii. p. 701, t. 83, f. 2.
Motacilla nævia, *Bodd. Table des Pl. Enl. d'Aubent.* p. 35.
Curruca locustella, *Steph. Gen. Zool.* xiii. p. 213; *Flem. Brit. An.* p. 69; *Swains. Classif. of B.* ii. p. 241.
Locustella avicula, *Ray, Syn.* p. 70.
Locustella ———, *Kaup, Naturl. Syst.* p. 115.
Locustella Rayii, *Gould, Pr. Bonap. Geogr. Comp. List of B.* p. 12.
Acrocephalus fluviatilis, *Naum. Vög.* (1819), p. 192, 202.
Calamoherpe locustella, *Boie, Isis* (1822), p. 552; *Brehm, Vög. Deuts.* p. 439.
Calamoherpe tenuirostris, *Brehm, Vög. Deuts.* p. 440?
Sibilatrix locustella, *Macgill. Hist. Brit. B.* ii. p. 399; *Eyton, Cat. Brit. B.* p. 11; *Keys. & Bl. Wirbelth. Eur.* p. 54; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 28.
Salicaria locustella, *Selby, Brit. Orn.* i. p.
Muscipeta locustella, *Koch, Baier. Zool.* i. p. 166.
Muscipeta olivacea, *Koch, Baier. Zool.* i. p. 167.
Grasshopper Lark, *Penn. Brit. Zool.* (1766) i. p. 95, t. 9, f. 5.
Grasshopper Warbler, *Penn. Brit. Zool.* (1812) i. p. 518; *Selby, Brit. Orn.* p. 166; *Yarr. Brit. B.* 2 edit. i. p. 215, fig.

*Pl. enl.* 581, f. 3; *Gould, B. of Eur.* pl. 103; *Lewin, Brit. B.* iii. pl. 98.

*a*. Wiltshire. Male. Presented by G. Montagu, Esq.
*b*. Wiltshire. Female. From Col. Montagu's collection.

## b. Calamodus.

### 2. Caladomyta phragmitis. The Sedge Warbler.

Calamodyta phragmitis, *Pr. Bonap. Geogr. Comp. List of B.* p. 12; *G. R. Gray, Gen. of B.* i. p. 172.

Sylvia phragmitis, *Bechst. Naturg. Deuts.* iii. p. 633; *Temm. Man. d'Orn.* 1815, p. 132; *Jenyns, Man. B. Vert. An.* p. 107; *Naum. Vög. Deuts.* (1822) ii. p. 648, t. 82, f. 1.

Motacilla schænobænus, *Linn.*

Motacilla salicaria, *Linn. S. N.* i. p. 330?

Sylvia salicaria, *Lath. Ind. Orn.* ii. p. 516; *Leach, Syst. Cat. Mam. & B. B. M.* p. 23.

Curruca salicaria, *Steph. Gen. Zool.* xiii. p. 209; *Flem. Brit. An.* p. 69.

Calamoherpe phragmitis, *Boie, Isis* (1822), p. 552; *Brehm, Vög. Deuts.* p. 449; *Macgill. Hist. Brit. B.* ii. p. 390.

Calamoherpe tritici, *Brehm, Vög. Deuts.* p. 449.

Calamoherpe schœnobænus, *Brehm, Vög. Deuts.* p. 450.

Curruca phragmitis, *Swains. Classif of B.* ii. p. 241.

Calamodus phragmitis, *Kaup, Naturl. Syst.* p. 116.

Calamoherpe subphragmitis, *Brehm, Vög. Deuts.* p. 1014.

Acrocephalus phragmitis, *Naum. Vög.* (1819) p. 202.

Muscipeta phragmitis, *Koch, Baier. Zool.* i. p. 163.

Salicaria phragmitis, *Selby, Brit. Orn.* i. p. 201; *Eyton, Cat. Brit. B.* p. 11; *Keys. & Bl. Wirbelth. Eur.* p. 54; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 28.

Reed Fauvette, *Bew. Brit. B.* (1797) i. p. 215, fig.

Sedge Warbler, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 517; *Selby, Brit. Orn.* i. p. 169; *Yarr. Brit. B.* 2 edit. i. p. 289, fig.

*Gould, B. of Eur.* pl. 110.

*a.* England.
*b.* Wiltshire. Male. From Col. Montagu's collection.
*c.* Cambridgeshire. From Mr. J. Baker's collection.
*d.* Sternum. England. Presented by John Ray, Esq.

## c. Potamodus.

### 3. Calamodyta Cetti. Cetti's Warbler.

Sylvia Cetti, *Marm. Mem. della Acad. de Torino*, xxv. p. 254; *Temm. Man. d'Orn.* (1820) i. p. 194; *Jenyns, Man. B. Vert. An.* p. 107.

Sylvia sericea, *Natt. Temm. Man. d'Orn.* (1820) i. p. 197.

Calamoherpe Cetti, *Boie, Isis* (1822). p. 552.

Potamodus Cetti, *Kaup, Naturl. Syst.* p. 123.

Calamodyta Cetti, *G. R. Gray, Gen. of B.* i. p. 172.
Curruca Cetti, *Steph. Gen. Zool.* xiii. p. 209.
Cettia altisonans, *Pr. Bonap. Geogr. Comp. List of B.* p. 11.
Cettia sericea, *Pr. Bonap. Geogr. Comp. List of B.* p. 12.
Salicaria Cettii, *Keys. & Bl. Wirbelth. Eur.* p. 55; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 29.
Sylvia platura, *Vieill. Encyc. Méth.* p. 466.
Sylvia fulvescens, *Vieill. Faun. Franc.* i. p. 208.

*Pl. enl.* 655, f. 2; *Gould, B. of Eur.* pl. 114, 115; *Pr. Bonap. Faun. Ital.* t. 29, f. 3.

## d. Pseudo-luscinia.

### 4. Calamodyta luscinoides. Savi's Warbler.

Sylvia luscinoides, *Savi, Ornit. Tosc.* i. p. 270; *Temm. Man. d'Orn.* iii. p. 119; *G. R. Gray, Ann. Nat. Hist.* vi. p. 155.
Salicaria luscinoides, *Keys. & Bl. Wirbelth. Eur.* p. 53; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 28.
Calamodyta luscinoides, *G. R. Gray, Gen. of B.* i. p. 172.
Pseudo-luscinia Savii, *Pr. Bonap. Geogr. Comp. List of B.* p. 12.
Savi's Warbler, *Lubb. Fauna of Norfolk*, p. 34; *Yarr. Brit. B.* 2 edit. i. p. 293, fig.

*Gould, B. of Eur.* pl. 104; *Pr. Bonap. Faun. Ital.* t. 30, f. 2.

*a.* Cambridgeshire. From Mr. J. Baker's collection.

## e. Calamoherpe.

### 5. Calamodyta strepera. The Reed Wren.

Sylvia arundinacea, *Lath. Ind. Orn.* ii. p. 510; *Temm. Man. d'Orn.* 1815, p. 134; *Leach, Syst. Cat. Mam. & B. B. M.* p. 23; *Jenyns, Man. B. Vert. An.* p. 107; *Naum. Vög. Deuts.* (1822) iii. p. 614, t. 81; f. 2.
Motacilla arundinacea, *Gmel. S. N.* i. p. 992.
Sylvia strepera, *Vieill. N. Dict. d'Hist. Nat.* xi. p. 182.
Sylvia palustris, *Bechst. Naturg. Deuts.* iii. p. 639.
Calamodyta strepera, *G. R. Gray, Gen. of B.* i. p. 172.
Curruca arundinacea, *Steph. Gen. Zool.* xiii. p. 209; *Flem. Brit. An.* p. 69; *Swains. Classif. of B.* ii. p. 241.
Calamoherpe arundinaceus, *Boie, Isis* (1822), p. 552; *Brehm, Vög. Deuts.* p. 444; *Pr. Bonap. Geogr. Comp. List of B.* p. 13; *Macgill. Hist. Brit. B.* iii. p. 395.
Calamoherpe arbustorum, *Boie, Isis* (1822), p. 552; *Brehm, Vög. Deuts.* p. 443.

Calamoherpe alnorum, *Brehm, Vög. Deuts.* p. 443.
Salicaria arundinacea, *Selby, Brit. Orn.* i. p. ; *Eyton, Cat. Brit. B.* p. 11; *Keys. & Bl. Wirbelth. Eur.* p. 53; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 27.
Acrocephalus arundinaceus, *Naum. Vög.* (1819) p. 201.
Muscipeta arundinacea, *Koch, Baier. Zool.* i. p. 165.
Reed Wren, *Mont. Orn. Dict.; Penn. Brit. Zool.* i. p. 520; *Selby, Brit. Orn.* i. p. 171; *Yarr. Brit. B.* 2 edit. i. p. 295, fig.

*Gould, B. of Eur.* pl. 109; *Pr. Bonap. Faun. Italica*, t. 29, f. 2.

*a.* England.
*b.* Wiltshire. Male. From Col. Montagu's collection.
*c.* Great Britain.

## 2. LUSCINIA.

Luscinia, *Linn. S. N.* (1735).
Curruca, *Boie, Isis* (1822), p. 55 (pt.)
Philomela, *Selby, Brit. Orn.*
Lusciola, *Keys. and Bl. Wirbelth. Eur.* p. 58 (1840).

### 1. LUSCINIA PHILOMELA. The Nightingale.

Motacilla luscinia, *Linn. S. N.* i. p. 328.
Sylvia luscinia, *Lath. Ind. Orn.* ii. p. 506; *Temm. Man. d'Orn.* 1815, p. 105; *Leach, Syst. Cat. Mam. & B. B. M.* p. 23; *Jenyns, Man. B. Vert. An.* p. 107; *Naum. Vög. Deuts.* (1822) ii. p. 373, t. 74, f. 2.
Curruca luscinia, *Koch, Baier. Zool.* i. p. 154; *Boie, Isis* (1822), p. 553; *Steph. Gen. Zool.* xiii. p. 208; *Flem. Brit. An.* p. 69.
Philomela luscinia, *Eyton, Cat. Brit. B.* p. 11; *Macgill. Hist. Brit. B.* ii. p. 321; *Swains. Classif. of B.* ii. p. 240.
Luscinia philomela, *Pr. Bonap. Geogr. Comp. List of B.* p. 15; *G. R. Gray, Gen. of B.* i. p. 173.
Luscinia megarhynchos, *Brehm, Vög. Deuts.* p. 356.
Luscinia media, *Brehm, Vög. Deuts.* p. 357.
Luscinia Okenii, *Brehm, Vög. Deuts.* p. 357.
Luscinia peregrina, *Brehm, Vög. Deuts.* p. 358, t. xxi. f. 2.
Lusciola luscinia, *Keys. & Bl. Wirbelth. Eur.* p. 58; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 31.
The Nightingale, *Bew. Brit. B.* i. p. 199; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 494; *Selby, Brit. Orn.* i. p. 172; *Yarr. Brit. B.* 2 edit. i. p. 302, fig.

*Pl. enl.* 615; *Gould, B. of Eur.* pl. 116.

*a*. Bayswater. Presented by J. F. Stephens, Esq.
*b*. Cambridgeshire. Chicks. Presented by Mr. J. Baker.
*c*. England. From Mr. Gould's collection.
*d*. Cambridgeshire. Young. From Mr. J. Baker's collection.

## 3. SYLVIA.

Sylvia, *Lath. Ind. Orn.* (1790).
Thamnodus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 110 (1829).
Staparola, *Pr. Bonap. Faun. Ital.* p.
Pyrophthalma, *Pr. Bonap. Faun. Ital.* p.
Melizophilus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 15 (1816).
Erythroleuca, *Kaup, Naturl. Syst.* p. 153 (1829).
Monachus, *Kaup, Naturl. Syst.* p. 33 (1829).
Epilais, *Kaup, Naturl. Syst.* p. 145 (1829).
Adornis, *G. R. Gray, List of Gen. of B.* p. 29 (1841).
Adophoneus, *Kaup, Naturl. Syst.* p. 28 (1829).
Nisoria, *Pr. Bonap. Geogr. Comp. List of B.* p. 15 (1838).
Phyllopneuste, *Mey. & Wolf.* (1815).
Asilus, *Bechst.* (1802).
Hippolais, *Brehm, Isis* (1828), p. 1283.
Asilus, *Mœhring, Gen. Av.* p. 44 (1752).
Phylloscopus, *Boie, Isis* (1826), p. 972.
Sibilatrix, *Kaup, Naturl. Syst. der Eur. Thier.* p. 98 (1829).
Chloropeta, *Smith, Ill. S. Afr. Zool. Birds*, pl.
Neornis, *Hodgs. Gray's Zool. Misc.* (1844) p. 82.

### a. MELIZOPHILUS.

#### 1. SYLVIA UNDATA. The Dartford Warbler.

Motacilla undata, *Bodd. Table des Pl. enl. d'Aubent.* p. 40.
Motacilla provincialis, *Gmel. S. N.* i. p. 958; *Temm. Man. d'Orn.* i. p. 211 (1820).
Sylvia dartfordiensis, *Lath. Ind. Orn.* ii. p.
Sylvia ferruginea, *Vieill. Fauna franc.* p. 218, t. 98, f. 2, 3.
Sylvia undata, *G. R. Gray, Gen. of B.* i. p. 174.
Melizophilus provincialis, *Jenyns, Man. B. Vert. An.* p. 112; *Pr. Bonap. Geogr. Comp. List. of B.* p. 14.
Curruca provincialis, *Boie, Isis* (1822), p. 553; *Macgill. Hist. Brit. B.* ii. p. 383; *Eyton, Cat. Brit. B.* p. 12; *Flem. Brit. An.* p. 70.
Melizophilus dartfordiensis, *Leach, Syst. Cat. Mam. & B. B. M.* p. 25.
Sylvia provincialis, *Keys. & Bl. Wirbelth. Eur.* p. 57; *Schley. Rev. Crit. des Ois. d'Eur.* p. 24.

Thamnodus provincialis, *Kaup, Naturl. Syst.* p. 109.
Dartford Warbler, *Bew. Brit. B.* (1797) i. p. 203, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 530, pl. lxiii.; *Selby, Brit. Orn.* i. p. 180; *Yarr. Brit. B.* 2 edit. i. p. 340, fig.

*Gould, B. of Eur.* pl. 129; *Pl. enl.* 655, f. 1.

*a*. Devonshire. Female. From Col. Montagu's collection.
*b*. Kent. Male. From Col. Montagu's collection.
*c*. Kent. Young. From Col. Montagu's collection.

## b. Sylvia.

### 2. Sylvia curruca. The Lesser Whitethroat.

Motacilla curruca, *Gmel. S. N.* i. p. 954?
Sylvia curruca, *Lath. Ind. Orn.* ii. p. 509; *Temm. Man. d'Orn.* 1815, i. p. 113; *Jenyns, Man. B. Vert. An.* p. 109; *Naum. Vög. Deuts.* (1822) ii. p. 451, t. 77, f. 1; *Pr. Bonap. Geogr. Comp. List of B.* p. 14; *Keys. & Bl. Wirbelth. Eur.* p. 57; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 24; *G. R. Gray, Gen. of B.* i. p. 174.
Motacilla garrula, *Retz. Linn. Faun. Suec.* p. 254.
Sylvia garrula, *Bechst. Naturg. Deuts.* iii. p. 540; *Macgill. Hist. Brit. B.* ii. p. 357.
Sylvia leucopogon, *Heckel.*
Motacilla sylvia, *Pall. Zoogr.* i. p. 488.
Curruca garrula, *Koch, Baier. Zool.* i. p. ; *Steph. Gen. Zool.* xiii. p. 211; *Brehm, Vög. Deuts.* p. 422; *Eyton, Cat. Brit. B.* p. 12; *Leach, Syst. Cat. Mam. & B. B. M.* p. 23.
Sylvia sylviella, *Lath. Ind. Orn.* ii. p. 515.
Curruca sylviella, *Flem. Brit. An.* p. 71.
Curruca dumetorum, *Brehm, Vög. Deuts.* p. 422.
Curruca molaria, *Brehm, Vög. Deuts.* p. 422.
Motacilla dumetorum, *Gmel.?*
Sylvia dumetorum, *Lath.?*
Lesser Whitethroat, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 529; *Yarr. Brit. B.* 2 edit. i. p. 320, fig.

*Pl. enl.* 580, f. 3? *Gould, B. of Eur.* pl. 125, f. 2.

*a*, *b*. London. Presented by W. Yarrell, Esq.
*c*. Cambridgeshire. From Mr. J. Baker's collection.
*d*. Cambridgeshire. Young. From Mr. J. Baker's collection.

## c. Straparola.

### 3. Sylvia cinerea. The Whitethroat Warbler.

Motacilla sylvia, *Linn. S. N.* i. p. 330.
Sylvia cinerea, *Lath. Ind. Orn.* ii. p. 514; *Temm. Man. d'Orn.*

1815, p. 113; *Leach, Syst. Cat. Mam. & B. B. M.* p. 23; *Jenyns' Man. B. Vert. An.* p. 109; *Naum. Vög. Deuts.* (1822), ii. p. 464, t. 78, f. 1, 2; *Macgill. Hist. Brit. B.* ii. p. 350; *Pr. Bonap. Geogr. Comp. List of B.* p. 14; *Keys. and Bl. Wirbelth. Eur.* p. 57; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 23; *G. R. Gray, Gen. of B.* i. p. 174.

Sylvia fruticeti, *Bechst. Naturg. Deuts.* iii. p. 530; *Vieill. Encyc. Méth.* p. 423.

Sylvia cineraria, *Bechst. Naturg. Deuts.* iii. p. 534.

Curruca cinerea, *Koch, Baier. Zool.* i. p. 157; *Brehm, Vög. Deuts.* p. 419; *Eyton, Cat. Brit. B.* p. 12; *Swains. Classif. of B.* ii. p. 241.

Curruca sylvia, *Steph. Gen. Zool.* xiii. p. 210; *Flem. Brit. An.* p. 71.

Curruca cineraria, *Brehm, Vög. Deuts.* p. 420.

Curruca fruticeti, *Brehm, Vög. Deuts.* p. 420.

Curruca caniceps, *Brehm, Vög. Deuts.* p. 421.

The Whitethroat, *Bew. Brit. B.* (1797) i. p. 219, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 528; *Selby, Brit. Orn.* i. p. 178.

The Common Whitethroat, *Yarr. Brit. B.* 2 edit. i. p. 316, fig. *Pl. enl.* 579, f. 3, 581, f. 1; *Gould, B. of Eur.* pl. 125, f. 1.

*a*. Great Britain.
*b*, *c*. Great Britain. From Mr. J. Clarke's collection.
*d*. Devonshire. Male. From Col. Montagu's collection.
*e*. Bishop Wearmouth. Presented by W. Yarrell, Esq.
*f*—*i*. Cambridgeshire. From Mr. J. Baker's collection.
*j*. Cambridgeshire. Chicks. From Mr. J. Baker's collection.

## d. MONACHUS.

### 4. SYLVIA ATRICAPILLA. The Black-cap Warbler.

Motacilla atricapilla, *Linn. S. N.* i. p. 332.

Sylvia atricapilla, *Lath. Ind. Orn.* ii. p. 508; *Temm. Man. d'Orn.* 1815, p. 109; *Jenyns, Man. B. Vert. An.* p. 108; *Naum. Vög. Deuts.* (1822) ii. p. 492, t. 77, f. 2, 3; *Macgill. Hist. Brit. B.* ii. p. 339; *Keys. & Bl. Wirbelth. Eur.* p. 57; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 25; *G. R. Gray, Gen. of B.* i. p. 174.

Sylvia ruticapilla, *Sandb.*

Curruca atricapilla, *Koch, Baier. Zool.* i. p. 155; *Leach, Syst. Cat. Mam. & B. B. M.* p. 25; *Flem. Brit. An.* p. 70; *Brehm, Vög. Deuts.* p. 418; *Eyton, Cat. Brit. B.* p. 12; *Pr. Bonap. Geogr. Comp. List of B.* p. 14.

Curruca nigricapilla, *Brehm, Vög. Deuts.* p. 417.
Curruca pileata, *Brehm, Vög. Deuts.* p. 418.
Monachus atricapillus, *Kaup. Naturl. Syst.* p. 33.
Philomela atricapilla, *Swains. Classif. of B.* ii. p. 240.
The Black-cap, *Bew. Brit. B.* (1797) i. p. 217, fig.; *Mont. Orn. Dict.*
Black-cap Warbler, *Penn. Brit. Zool.* (1812) i. p. 505; *Selby, Brit. Orn.* i. p. 174; *Yarr. Brit. B.* 2 edit. i. p. 307, fig.
*Pl. enl.* 580, f. 1, 2; *Gould, B. of Eur.* pl. 120.

*a*. Devonshire. Male. From Col. Montagu's collection.
*b*. England. Male.
*c*. Wiltshire. Female. From Col. Montagu's collection.
*d*. Cambridgeshire. Male. From Mr. J. Baker's collection.
*e*. Sternum. England. Presented by T. Ingall, Esq.

## e. EPILAIS.

### 5. SYLVIA HORTENSIS. The Garden Warbler.

Motacilla borin, *Bodd. Table des Pl. enl. d'Aubent.* p. 35.
Motacilla hortensis, *Gmel. S. N.* i. p. 955.
Sylvia hortensis, *Lath. Ind. Orn.* ii. p. 507; *Bechst. Naturg. Deuts.* iii. p. 524; *Temm. Man. d'Orn.* 1815, p. 111; *Leach, Syst. Cat. Mam. & B. B. M.* p. 23; *Naum. Vög. Deuts.* (1822) ii. p. 478, t. 78, f. 3; *Jenyns, Man. B. Vert. An.* p. 108; *Macgill. Hist. Brit. B.* iii. p. 345; *Keys. & Bl. Wirbelth. Eur.* p. 57; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 25; *G. R. Gray, Gen. of B.* i. p. 174.
Curruca hortensis, *Koch, Baier. Zool.* i. p. 155; *Flem. Brit. An.* p. 70; *Brehm, Vög. Deuts.* p. 415; *Eyton, Cat. Brit. B.* p. 12; *Pr. Bonap. Geogr. Comp. List of B.* 14; *Swains. Classif. of B.* ii. p. 241.
Sylvia ædonia, *Vieill. Faun. franc.* p. 221, t. 99, f. 3.
Curruca brachyrhyncha, *Brehm, Vög. Deuts.* p. 416.
Curruca grisea, *Brehm, Vög. Deuts.* p. 416, t. xxiii. f. 2.
Epilais hortensis, *Kaup, Naturl. Syst.* p. 145.
Adornis hortensis, *G. R. Gray, List of Gen. of B.* (1841) p. 29.
The Lesser Fauvette, Passerine Warbler, *Bew. Brit. B.* (1797) i. p. 212, fig.
The Fauvette, Pettichaps, *Bew. Brit. B.* (1797) i. p. 209.
Greater Pettichaps, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 506; *Selby, Brit. Orn.* i. p. 176.
The Garden Warbler, *Yarr. Brit. B.* 2 edit. i. p. 312, fig.
*Pl. enl.* 579, f. 2; *Gould, B. of Eur.* pl. 121.

*a*. Devonshire. Male. From Col. Montagu's collection.
*b*. Devonshire. Female. From Col. Montagu's collection.
*c*. Saffron Walden.

6. ? SYLVIA ORPHEA.

Sylvia orphea, *Temm. Man. d'Orn.* i. p. 198? *Milner, Zoologist*, 1849, p. 2588.
? Sylvia grisea, *Vieill.*
*Pl. enl.* 579, f. 1?

## f. PHYLLOSCOPUS.

7. SYLVIA RUFA. The Chiff-chaff.

Sylvia rufa, *Lath. Ind. Orn.* ii. p. 516; *Temm. Man. d'Orn.* 1815, p. 125; *Naum. Vög. Deuts.* (1823) iii. p. 581, t. 80, f. 4; *G. R. Gray, Gen. of B.* i. p. 174.
Sylvia hippolais, *Penn. Brit. Zool.* (1812) i. p. 508; *Leach, Syst. Cat. Mam. & B. B. M.* p. 24; *Jenyns, Man. B. Vert. An.* p. 111.
Regulus hippolais, *Flem. Brit. An.* p. 72.
Phyllopneuste rufa, *Pr. Bonap. Geogr. Comp. List of B.* p. 13.
Ficedula rufa, *Koch, Baier. Zool.* i. p. 160; *Keys. & Bl. Wirbelth. Eur.* p. 56; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 26.
Phylloscopus rufus, *Kaup, Naturl. Syst.* p. 94.
Regulus hippolais, *Cuv. Reg. An.* (1817) i. p. 369; *Steph. Gen. Zool.* xiii. p. 231?
Sylvia collybita, *Vieill. Faun. Franc.* p. 214, t. 97, f. 1.
Phyllopneuste hippolais, *Macgill. Hist. Brit. B.* ii. p. 379.
Sylvia abietina, *Nils.*
Sylvicola rufa, *Eyton, Cat. Brit. B.* p. 14.
Least Willow Wren, *Bew. Brit. B.* (1797) i. p. 223.
Lesser Pettichaps, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 508; *Selby, Brit. Orn.* i. p. 186.
The Chiff-chaff, *Yarr. Brit. B.* 2 edit. i. p. 335, fig.
*Gould, B. of Eur.* pl. 131, f. 2.

*a*. Devonshire. From Col. Montagu's collection.
*b*. Epping. Presented by H. Doubleday, Esq.
*c*. Sternum. England. Presented by T. Ingall, Esq.
*d*. Sternum. England. Presented by John Ray, Esq.
*e*. Skull. England. Presented by John Ray, Esq.

8. SYLVIA TROCHILUS. The Willow Warbler.

Motacilla trochilus, *Linn. S. N.* i. p. 338.
Sylvia trochilus, *Lath. Ind. Orn.* ii. p. 550; *Temm. Man. d'Orn.*

1815, p. 124; *Leach, Syst. Cat. Mam. & B. B. M.* p. 24; *Naum. Vög. Deuts.* (1823) ii. p. 568, t. 80, f. 3; *Jenyns, M. Brit. Vert. An.* p. 111.; *Temm. Man. d'Orn.* (1820) i. p. 224; *G. R. Gray, Gen. of B.* i. p. 174.

Motacilla acredula, *Linn. S. N.* i. p. 338.

Sylvia fitis, *Bechst. Naturg. Deuts.* iii. p. 643.

Regulus trochilus, *Cuv. Reg. An.* (1817), i. p. 369; *Steph. Gen. Zool.* xiii. p. 231; *Flem. Brit. An.* p. 72.

Phyllopneuste trochilus, *Brehm, Vög. Deuts.* p. 429; *Macgill. Hist. Brit. B.* ii. p. 371; *Pr. Bonap. Geogr. Comp. List of B.* p. 13.

Phyllopneuste acredula, *Brehm, Vög. Deuts.* p. 428.

Ficedula trochilus, *Keys. & Bl. Wirbelth. Eur.* p. 56; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 25.

Sylvia flaviventris, *Vieill. N. Dict. d'Hist. Nat.* xi. p. 241.

Ficedula fitis, *Koch, Baier. Zool.* i. p. 159.

Phyllopneuste fitis, *Brehm, Vög. Deuts.* p. 427.

Phyllopneuste arborea, *Brehm, Vög. Deuts.* p. 427.

Phylloscopus trochilus, *Boie, Isis* (1826), p. 972.

Sylvicola trochilus, *Eyton, Cat. Brit. B.* p. 13.

The Willow Wren, *Bew. Brit. B.* (1797) i. p. 222, fig.

Yellow Wren, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 511; *Selby, Brit. Orn.* i. p. 189.

The Willow Warbler, *Yarr. Brit. B.* 2 edit. i. p. 329, fig.

*Pl. enl.* 651, f. 1; *Gould, B. of Eur.* pl. 131, f. 1.

*a.* Devonshire. Female. From Col. Montagu's collection.
*b.* Great Britain.
*c.* Great Britain.
*d.* Wiltshire. Male, variety. From Col. Montagu's collection.
*e, f.* Saffron Walden. From Mr. J. Clarke's collection.
*g, h.* Cambridgeshire. Chicks. Presented by Mr. J. Baker.

## g. SIBILATRIX.

### 8. SYLVIA SIBILATRIX. The Wood Warbler.

Sylvia sibilatrix, *Bechst. Naturg. Deuts.* iii. p. 561; *Temm. Man. d'Orn.* 1815, p. 123; *Naum. Vög. Deuts.* (1823) iii. p. 556, t. 80, f. 2; *Jenyns, Man. B. Vert. An.* p. 110; *G. R. Gray, Gen. of B.* i. p. 174.

Sylvia sylvicola, *Lath. Ind. Ornith. Supp.* p. ; *Linn. Trans.* iv. p. 35; *Leach, Syst. Cat. Mam. & B. B. M.* p. 24.

Ficedula sibilatrix, *Koch, Baier. Zool.* i. p. 159; *Keys. & Bl. Wirbelth. Eur.* p. 55; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 26.

Curruca sibilatrix, *Flem. Brit. An.* p. 70.

Phyllopneuste sibilatrix, *Boie, Brehm, Vög. Deuts.* p. 425; *Pr. Bonap. Geogr. Comp. List of B.* p. 13.
Phyllopneuste megaryhnchos, *Brehm, Vög. Deuts.* p. 425.
Phyllopneuste sylvicola, *Brehm, Vög. Deuts.* p. 426; *Macgill. Hist. Brit. B.* ii. p. 364.
Sibilatrix ——— *Kaup, Naturl. Syst.* p. 98.
Regulus? sylvicolus, *Steph. Gen. Zool.* xiii. p. 231.
Sylvicola sibilatrix, *Eyton, Cat. Brit. B.* p. 14.
The Yellow Willow Wren, *Bew. Brit. B.* (1797) i. p. 220.
Wood Wren, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 512; *Selby, Brit. Orn.* i. p. 188.
The Wood Warbler, *Yarr. Brit. B.* 2 edit. i. p. 324, fig.

*Pl. col.* 245, f. 3; *Gould, B. of Eur.* pl. 131, f. 3; *Pr. Bonap. Fauna Italica*, t. 27, f. 1.

*a*. Carmarthenshire. Male. From Col. Montagu's collection.
*b*. Carmarthenshire. Female. From Col. Montagu's collection.
*c*. Great Britain.

## 4. REGULUS.

Regulus, *Cuv. Anat. Comp.* i. *Tab. Sec. Cl. des Ois.* (1799—1800).
Reguloides, *Blyth* (1847).
Abrornis, *Hodgs. Gray, Zool. Misc.* p. 82 (1844).
Horornis, *Hodgs. Gray, Zool. Misc.* p. 82 (1844).

### a. REGULUS.

#### 1. REGULUS CRISTATUS. The Golden-crested Regulus.

Motacilla regulus, *Linn. S. N.*
Sylvia regulus, *Lath. Ind. Orn.* ii. p. 548; *Temm. Man. d'Orn.* 1815, p. 126.
Regulus cristatus (*Ray*), *Koch, Baier. Zool.* i. p. 199; *Flem. Brit. An.* p. 72; *Pr. Bonap. Geogr. Comp. List of B.* p. 19; *Keys. & Bl. Wirbelth. Eur.* p. 55; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 44; *G. R. Gray, Gen. of B.* i. p. 175.
Regulus auricapillus, *Selby, Brit. Orn.* i. p. 192; *Jenyns, Man. B. Vert. An.* p. 113; *Macgill. Hist. Brit. B.* ii. p. 408; *Eyton, Cat. Brit. B.* p. 13.
Regulus flavicapillus, *Naum. Vög. Deuts.* (1823) iii. p. 968, t. 93, f. 1, 2, 3.
Regulus vulgaris, *Leach, Syst. Cat. Mam. & B. B. M.* p. 25.
Regulus septentrionalis, *Brehm, Vög. Deuts.* p. 479.
Regulus crococephalus, *Brehm, Vög. Deuts.* 480.
Regulus chrysocephalus, *Brehm, Vög. Deuts.* 481.

The Golden-crested Wren, *Bew. Brit. B.* (1797) i. p. 224, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 514.
Golden-crested Regulus, *Selby, Brit. Orn.* i. p. 192; *Yarr. Brit. B.* 2 edit. i. p. 346, fig.

*Gould, B. of Eur.* pl. 148, f. 1.

*a.* Devonshire. From Col. Montagu's collection.
*b.* Middlesex. Presented by E. Churton, Esq.
*c.* Devonshire. From Col. Montagu's collection.
*d.* Devonshire. Variety. From Col. Montagu's collection.
*e.* Saffron Walden. Male. From Mr. J. Clarke's collection.
*f.* Saffron Walden. Female. From Mr. J. Clarke's collection.
*g.* Sternum. England. Presented by T. Ingall, Esq.

2. REGULUS IGNICAPILLUS. The Fire-crested Regulus.

Sylvia ignicapillus, *Brehm*; *Temm. Man. d'Orn.* (1820) i. p. 231.
Regulus pyrocephalus, *Brehm, Beitr.* ii. p. 230; *Vög. Deuts.* p. 483.
Regulus ignicapillus, *Naum. Vög. Deuts.* (1823) iii. p. 983, t. 93, f. 4, 5, 6; *Jenyns, Man. B. Vert. An.* p. 113; *Macgill. Hist. Brit. B.* ii. p. 416; *Eyton, Cat. Brit. B.* p. 13; *Pr. Bonap. Geogr. Comp. List of B.* p. 19; *Keys. & Bl. Wirbelth. Eur.* p. 55; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 44; *G. R. Gray, Gen. of B.* i. p. 175.
Regulus Nilsonii, *Brehm, Vög. Deuts.* p. 482?
Regulus brachyrhynchus, *Brehm, Vög. Deuts.* p. 483?
The Fire-crested Wren, *Eyton, Hist. R. Brit. B.* p. 13.
The Fire-crested Regulus, *Yarr. Brit. B.* 2 edit. i. p. 351,

*Pl. enl.* 651, f. 3; *Gould, B. of Eur.* pl. 148, f. 2.

(Cambridgeshire, Sussex and Durham, &c.)

## b. REGULOÏDES.

3. REGULUS PROREGULUS. The Dalmatian Regulus.

Regulus modestus, *Gould, B. of Eur.* pl. 149; *Temm. Man. d'Orn.* iv. p. 618; *Pr. Bonap. Geogr. Comp. List of B.* p. 19; *Macgill. Man. N. H. Ornith.* i. p. 152.
Motacilla proregulus, *Pall. Zoogr.* i. p. 499.
Regulus proregulus, *Keys. & Bl. Wirbelth. Eur.* p. 55; *G. R. Gray, Gen. of B.* i. p. 175.
Phylloscopus modestus, *Blyth, Ann. Nat. Hist.* xiii. p. 179.
Dalmatian Regulus, *Yarr. Brit. B.* 2 edit. i. p. 355, fig.

*Gould, B. of Eur.* pl. 149.

(Northumberland).

ASIATIC SOCIETY

## ii. *Erythacinæ*.

### 1. SAXICOLA.

Saxicola, *Bechst. Orn. Taschenb.* i. p. (1802).
Vitiflora, *Leach, Syst. Cat. Mam. & B. B. M.* p. 21 (1816).
Œnanthe, *Vieill. Analyse*, p. 43 (1816).
Campicola, *Swains. Zool. Journ.* iii. p. 171 (1827).

#### a. Saxicola.

##### 1. Saxicola œnanthe. The Wheatear.

Motacilla œnanthe, *Linn. S. N.* i. p. 332.
Sylvia œnanthe, *Lath. Ind. Orn.* ii. p. 529; *Temm. Man. d'Orn.* 1815, p. 135.
Motacilla vitiflora, *Pall. Zoogr.* i. p. 472.
Saxicola œnanthe, *Bechst. Orn. Taschenb.* i. p. 217; *Naum, Vög. Deuts.* (1823) iii. p. 863, t. 89, f. 1, 2; *Flem. Brit. An.* p. 67; *Jenyns, Man. B. Vert. An.* p. 119; *Macgill. Hist. Brit. B.* ii. p. 289; *Eyton, Cat. Brit. B.* p. 10; *Keys. & Bl. Wirbelth. Eur.* p. 59; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 33; *G. R. Gray. Gen. of B.* i. p. 178.
Vitiflora œnanthe, *Leach, Syst. Cat. Mam. & B. B. M.* p. 21; *Boie, Isis* (1822), p. 552; *Brehm, Vög. Deuts.* p. 404, t. xxii. f. 5; *Pr. Bonap. Geogr. Comp. List of B.* p. 16.
Vitiflora septentrionalis, *Brehm, Vög. Deuts.* p. 403.
Vitiflora grisea, *Brehm, Vög. Deuts.* p. 405.
Vitiflora cinerea, *Brehm, Vög. Deuts.* p. 405.
The White-rump, *Bew. Brit. B.* (1797) i. p. 229.
Wheatear, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 521; *Selby, Brit. Orn.* i. p. 199; *Yarr. Brit. B.* 2 edit. i. p. 276, fig.
*Pl. enl.* 554, f. 1, 2.

*a*. Brighton. Presented by J. G. Children, Esq.
*b*. Cambridgeshire. From Mr. J. Baker's collection.
*c*. Sternum. England. Presented by T. Ingall, Esq.
*d*. Sternum. England. Presented by John Ray, Esq.
*e*. Skull. England. Presented by John Ray, Esq.

### 2. PRATINCOLA.

Pratincola, *Koch, Baier. Zool.* i. p. (1816).
Fruticicola, *Macgill. Hist. Brit. B.* ii. p. 271 (1839).
Rubetra, *G. R. Gray, List of Gen. of B.* (1840) p. 22.
Praticola, *Kaup, Naturl. Syst.* (1829) p. 114.

### 1. Pratincola rubetra. The Whinchat.

Motacilla rubetra, *Linn. S. N.* i. p. 332.
Sylvia rubetra, *Lath. Ind. Orn.* ii. p. 525; *Temm. Man. d'Orn.* 1815, p. 139.
Curruca rubetra, *Leach, Syst. Cat. Mam. & B. B. M.* p. 24.
Saxicola rubetra, *Bechst. Orn. Taschenb.* i. p. 218; *Naum. Vög. Deuts.* (1823) iii. p. 903, t. 89, f. 3, 4; *Flem. Brit. An.* p. 67; *Jenyns, Man. B. Vert. An.* p. 120; *Brehm, Vög. Deuts.* p. 409; *Eyton, Cat. Brit. B.* p. 10; *Pr. Bonap. Geogr. Comp. List of B.* p. 16; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 34.
Rubetra major, *Briss.; G. R. Gray, List of Gen.* (1840), p. 22.
Pratincola rubetra, *Koch, Baièr. Zool.* i. p. 191; *G. R. Gray, Gen. of B.* i. p. 179.
Saxicola pratorum, *Brehm, Vög. Deuts.* p. 407.
Saxicola septentrionalis, *Brehm, Vög. Deuts.* p. 408, t. xxi. f. 3.
Saxicola crampes, *Brehm, Vög. Deuts.* p. 409.
Fruticicola rubetra, *Macgill. Hist. Brit. B.* ii. p. 273.
Saxicola (Pratincola) rubetra, *Keys. & Bl. Wirbelth. Eur.* p. 59.
The Whinchat, *Bew. Brit. B.* (1797) i. p. 231, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 525; *Selby, Brit. Orn.* i. p. 201; *Yarr. Brit. B.* 2 edit. i. p. 272, fig.

*Pl. enl.* 678, f. 2; *Gould, B. of Eur.* pl. 93.

*a*. Somerset. From Col. Montagu's collection.
*b*. Sternum. England. Presented by T. Ingall, Esq.

### 2. Pratincola rubicola. The Stonechat.

Motacilla rubicola, *Linn. S. N.* i. p. 332.
Sylvia rubicola, *Lath. Ind. Orn.* ii. p. 523; *Temm. Man. d'Orn.* 1815, p. 140.
Curruca rubicola, *Leach, Syst. Cat. Mam. & B. B. M.* p. 24.
Saxicola rubicola, *Bechst. Orn. Taschenb.* i. p. 220; *Naum. Vög. Deuts.* (1823) iii. p. 884, t. 90, f. 3—5; *Flem. Brit. An.* p. 68; *Jenyns, Man. B. Vert. An.* p. 121; *Brehm, Vög. Deuts.* p. 410; *Eyton, Cat. Brit. B.* p. 9; *Pr. Bonap. Geogr. Comp. List of B.* p. 16; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 35.
Pratincola rubicola, *Koch, Baier. Zool.* i. p. 192; *G. R. Gray, Gen. of B.* i. p. 179.
Saxicola fruticeti, *Brehm, Vög. Deuts.* p. 411.
Saxicola media, *Brehm, Vög. Deuts.* p. 411, t. xxiii. f. 1.
Saxicola tytis, *Brehm, Vög. Deuts.* p. 412.
Fruticicola rubicola, *Macgill. Hist. Brit. B.* ii. p. 279.
Saxicola (Pratincola) rubicola, *Keys. & Bl. Wirbelth. Eur.* p. 59.

The Stonechat, *Bew. Brit. B.* (1797) i. p. 233, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 526; *Selby, Brit. Orn.* i. p. 203; *Yarr. Brit. B.* 2 edit. i. p. 268, fig.

*Pl. enl.* 678, f. 2; *Gould, B. of Eur.* pl. 90, f. 3.

*a*, *b*. Devonshire. From Col. Montagu's collection.
*c*. Surrey. Young.

## 3. RUTICILLA.

Ruticilla, *Brehm, Isis* (1828), p. 1280.
Ficedula, *Boie, Isis* (1822), p. 553.
Phœnicura, *Swains. Faun. Bor. Amer.* ii. p. 489 (1831).
Larvivora, *Hodgs.*
Cinclidium, *Blyth, Journ. A. S. Beng.* (1842) p. 181.

### 1. RUTICILLA PHŒNICURA. The Redstart.

Motacilla phœnicurus, *Linn. S. N.* i. p. 335.
Sylvia phœnicurus, *Lath. Ind. Orn.* ii. p. 511; *Temm. Man. d'Orn.* 1815, p. 119; *Leach, Syst. Cat. Mam. & B. B. M.* p. 24; *Naum. Vög. Deuts.* (1823) iii. p. 510, t. 79, f. 1, 2; *Flem. Brit. An.* p. 68; *Jenyns, Man. B. Vert. An.* p. 104.
Saxicola phœnicurus, *Koch, Baier. Zool.* i. p. 188.
Phœnicura ruticilla, *Swains. Classif. of B.* ii. p. 240; *Gould, B. of Eur.*
Ruticilla sylvestris, *Brehm, Vög. Deuts.* p. 363, t. xxi. f. 4.
Ruticilla arborea, *Brehm, Vög. Deuts.* p. 363.
Ruticilla hortensis, *Brehm, Vög. Deuts.* p. 364.
Ruticilla phœnicura, *Pr. Bonap. Geogr. Comp. List. of B.* p. 15; *Macgill. Hist. Brit. B.* iii. p. 305; *G. R. Gray, Gen. of B.* i. p. 180.
Lusciola (Ruticilla) phœnicurus, *Keys. & Bl. Wirbelth. Eur.* p. 58.
Ficedula phœnicurus, *Boie, Isis* (1822), p. 553.
Phœnicura muraria, *Swains. Faun. Bor. Amer.* ii. p. 489.
Phœnicura albifrons, *Bl.?*
Ficedula rutacilla, *Eyton, Cat. Brit. B.* p. 10.
Lusciola phœnicura, *Schleg. Rev. Crit. des Ois. d'Eur.* p. 31.
The Redstart, *Bew. Brit. B.* (1797) i. p. 208, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 500; *Selby, Brit. Orn.* i. p. 184; *Yarr. Brit. B.* 2 edit. i. p. 259, fig.

*Pl. enl.* 351, f. 1, 2; *Gould, B. of Eur.* pl. 95.

*a*. Great Britain. Male, adult.
*b*. Great Britain. Male, young.

*c*. Devonshire. Female. From Col. Montagu's collection.
*d*. Epping. Male, adult. Presented by Henry Doubleday, Esq.
*e*. Saffron Walden. Very young. From Mr. J. Clarke's collection.

### 2. Ruticilla tithys. The Black Redtail.

Sylvia tithys, *Scop. Ann.* i. p. 157; *Temm. Man. d'Orn.* 1815, p. 117; *Naum. Vög. Deuts.* (1823) iii. p. 525, t. 79, f. 3, 4; *Jenyns, Man. B. Vert. An.* p. 105.
? Motacilla erythacus, *Linn. S. N.* i. p. 335.
? Motacilla gibraltariensis, *Gmel. S. N.* i. p. 987.
Saxicola tithys, *Koch, Baier. Zool.* i. p. 186.
Ruticilla tithys, *Brehm, Vög. Deuts.* p. 365; *Macgill. Hist. Brit. B.* ii. p. 311; *Pr. Bonap. Geogr. Comp. List of B.* p. 16; *G. R. Gray, Gen. of B.* i. p. 180.
Ruticilla atra, *Brehm, Vög. Deuts.* p. 365.
Ruticilla gibraltariensis, *Brehm, Vög. Deuts.* p. 366.
Phœnicura tithys, *Jard. & Selby, Ill. Orn.* pl. 86, f. 1, 2.
Ficedula tithys, *Boie, Isis* (1822), p. 553; *Eyton, Rarer Brit. B.* p. 7, and *Eyton, Cat. Brit. B.* p. 10.
Lusciola tithys, *Schleg. Rev. Crit. des Ois. d'Eur.* p. 31.
Lusciola (Ruticilla) tithys, *Keys. & Bl. Wirbelth. Eur.* p. 59.
The Black Redstart, *Eyton, Hist. R. Brit. B. p.* 7.
The Black Redtail, *Yarr. Brit. B.* 2 edit. i. p. 264, fig.
*Gould, B. of Eur.* pl. 96.

*a*. Wimbledon Common. From Mr. J. Baker's collection.

## 4. ERYTHACUS.

Erythacus, *Cuv. Anat. Comp.* i. *Tab. Sec. Cl. des Ois.* (1790-1800).
Erythaca, *Swains. Faun. Bor. Amer.* ii. p. 488 (1831).
Dandalus, *Boie, Isis* (1826), p. 972.
Rubecula, *Brehm, Isis.* (1828), p. 1280.

### 1. Erythacus rubecula. The Red-breast.

Motacilla rubecula, *Linn. S. N.* i. p. 337.
Sylvia rubecula, *Lath. Ind. Orn.* ii. p. 520; *Temm. Man. d'Orn.* 1815, p. 115; *Naum. Vög. Deuts.* (1822) ii. p. 397, t. 75, f. 1, 2; *Flem. Brit. An.* p. 68; *Jenyns, Man. B. Vert. An.* p. 103.
Erythacus rubecula, *Macgill. Hist. Brit. B.* ii. p. 263; *G. R. Gray, Gen. of B.* i. p. 182.
Dandalus pinetorum, *Brehm, Vög. Deuts.* p. 360.

Dandalus foliorum, *Brehm, Vög. Deuts.* p. 360.
Dandalus septentrionalis, *Brehm, Vög. Deuts.* p. 361, t. xxi. f. 3.
Dandalus rubecula, *Boie, Isis* (1826), p. 972; *Kaup, Naturl. Syst.* p. 138; *Pr. Bonap. Geogr. Comp. List of B.* p. 15.
Ficedula rubecula, *Boie, Isis* (1822), p. 553; *Eyton, Cat. Brit. B.* p. 10.
Erythaca rubecula, *Swains. Fauna Bor. Amer.* p. 488; *Selby, Brit. Orn.* i. p. 188
Lusciola (Erythacus) rubecula, *Keys. & Bl. Wirbelth. Eur.* p. 58.
Lusciola rubecula, *Schleg. Rev. Crit. des Ois. d'Eur.* p. 32.
Curruca rubecula, *Leach, Syst. Cat. Mam. & B. B. M.* p. 25.
The Redbreast, *Bew. Brit. B.* (1797) i. p. 204; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 502; *Selby, Brit. Orn.* i. p. 180; *Yarr. Brit. B.* 2 edit. i. p. 247, fig.

*Pl. enl.* 361, f. 1; *Gould, B. of Eur.* pl. 98.

*a*. Great Britain.
*b*. Devonshire.
*c*. Cambridgeshire. Young. Presented by Mr. J. Baker.
*d*, *e*. Cambridgeshire. Very young. Presented by Mr. J. Baker.
*f*. Cambridgeshire. Young. From Mr. Baker's collection.
*g*. Sternum. England. Presented by T. Ingall, Esq.

## 5. CYANECULA.

Cyanecula, *Brehm, Isis* (1828), p. 1280.
Pandicilla, *Blyth* (1833).
Calliope, *Gould* (1836).

### 1. Cyanecula suecica. The Blue-throated Warbler.

Motacilla suecica, *Linn. S. N.* i. p. 336.
Sylvia suecica, *Lath. Ind. Orn.* ii. p. 521; *Temm. Man. d'Orn.* 1815, p. 116; *Naum. Vög. Deuts.* (1822) ii. p. 414, t. 75, f. 345; *Jenyns, Man. B. Vert. An.* p. 104.
Phœnicura suecica, *Swains. Classif. of B.* ii. p. 240.
Saxicola suecica, *Koch, Baier. Zool.* i. p. 189.
Ficedula suecica, *Boie, Isis* (1822), p. 553; *Eyton, Cat. Brit. B.* p. 10.
Sylvia cyanecula, *Meyer & Wolf, Tasch. Deuts. Vög.* i. p. 240.
Cyanecula suecica, *Brehm, Vög. Deuts.* p. 350, t. xxi. f. 1; *Pr. Bonap. Geogr. Comp. List of B.* p. 15; *G. R. Gray, Gen. of B.* i. p. 182.
Cyanecula Wolfii, *Brehm, Vög. Deuts.* p. 352.
Cyanecula obscura, *Brehm, Vög. Deuts.* p. 353.

Cyanecula leucocyanea, *Brehm, Vög. Deuts.* p. 353.
Cyanecula orientalis, *Brehm, Vög. Deuts.* p. 351 ?
Ruticilla cyanecula, *Macgill. Brit. B.* ii. p. 300.
Lusciola (Cyanecula) suecica, *Keys. & Bl. Wirbelth. Eur.* p. 58.
Lusciola cyanecula, *Schleg. Rev. Crit. des Ois. d'Eur.* p. 32.
The Blue-throated Redstart, *Eyton, Hist. R. Brit. B.* p. 9, fig.
The Blue-throated Warbler, *Yarr. Brit. B.* 2 edit. i. p. 254, fig.
*Pl. enl.* 361, f. 2, 610, f. 1; *Gould, B. of Eur.* pl. 97.
(Newcastle and Dorsetshire).

## iii. *ACCENTORINÆ.*

### 1. ACCENTOR.

Accentor, *Bechst. Naturg. Deuts.* iii. p. (1802).
Prunella, *Vieill. Analyse*, p. 43 (1816).
Tharrhaleus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 137 (1829).
Spermolegus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 152 (1829).

### a. ACCENTOR.

#### 1. ACCENTOR ALPINUS. The Alpine Accentor.

Motacilla alpina, *Gmel. S. N.* i. p. 957.
Sturnus moritanus, *Gmel. S. N.* i. p. 804.
Sturnus collaris, *Gmel. S. N.* i. p. 805.
Accentor alpinus, *Bechst. Naturg. Deuts.* iii. p. 700; *Temm. Man. d'Orn.* 1815, p. 248; *Naum. Vög. Deuts.* (1823) iii. p. 940, t. 92, f. 1; *Flem. Brit. An.* p. 72; *Brehm, Vög. Deuts.* p. 456; *Jenyns, Man. B. Vert. An.* p. 102; *Eyton, Cat. Brit. B.* p. 13; *Macgill. Hist. Brit. B.* ii. p. 258; *Pr. Bonap. Geogr. Comp. List of B.* p. 15; *Keys. & Bl. Wirbelth. Eur.* p. 53; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 43; *G. R. Gray, Gen. of B.* i. p. 187.
Alpine Accentor, *Eyton, R. Brit. B.* p. 11, fig.; *Yarr. Brit. B.* 2 edit. i. p. 239, fig.
*Pl. enl.* 668; *Gould, B. of Eur.* pl. 99.
(Cambridgeshire, Essex, and Somersetshire).

### b. THARRHALEUS.

#### 2. ACCENTOR MODULARIS. The Hedge Accentor.

Motacilla modularis, *Linn. S. N.* i. p. 329.
Sylvia modularis, *Lath. Ind. Orn.* ii. p. 511; *Temm. Man. d'Orn.* 1815, p. 121.

Accentor modularis, *Bechst. Naturg. Deuts.* iii. p. 617; *Koch, Baier. Zool.* i. p. 196; *Temm. Man. d'Orn.* 1820, p. 249; *Naum. Vög. Deuts.* (1823) iii. p. 951, t. 92, f. 3, 4; *Flem. Brit. An.* p. 71; *Brehm, Vög. Deuts.* p. 458; *Jenyns, Man. B. Vert. An.* p. 103; *Eyton, Cat. Brit. B.* p. 13; *Macgill. Hist. Brit. B.* ii. p. 251; *Pr. Bonap. Geogr. Comp. List of B.* p. 15; *Keys. & Bl. Wirbelth. Eur.* p. 53; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 44; *G. R. Gray, Gen. of B.* p. 187.
Accentor piretorum, *Brehm, Vög. Deuts.* i. p. 457, t. xxiv. f. 1.
Tharrhaleus modularis, *Kaup, Naturl. Syst.* p. 137.
Curruca Eliotæ, *Leach, Syst. Cat. Mam. and B. B. M.* p. 24.
The Winter Fauvette, *Bew. Brit. B.* (1797) i. p. 213.
Hedge Warbler, *Mont. Orn. Dict.*
Hedge Sparrow Warbler, *Penn. Brit. Zool.* (1812) i. p. 509.
Hedge Accentor, *Selby, Brit. Orn.* i. p. 205; *Yarr. Brit. B.* 2 edit. i. p. 243, fig.

*Pl. enl.* 615, f. 1. *Gould, B. of Eur.* pl. 100.

*a*. Devonshire. Female. From Col. Montagu's collection.
*b*, *c*. Cambridgeshire. Males. Presented by Mr. J. Baker.
*d*—*f*. Cambridgeshire. Young. Presented by Mr. J. Baker.
*g*. Sternum. England. Presented by T. Ingall, Esq.

## iv. *Parinæ*.

### 1. PARUS.

Parus, *Linn. S. N.* (1735).
Lophophanes, *Kaup, Naturl. Syst. der Eur. Thier.* p. 92 (1829).
Cyanistes, *Kaup, Naturl. Syst. der Eur. Thier.* p. 99 (1829).
Pœcilla, *Kaup, Naturl. Syst. der Eur. Thier.* p. 114 (1829).
Melanochlora, *Less.* (1839).
Crataionyx, *Eyton, Proc. Z. S.* 1839, p. 104 (1839).
Psaltria, *Temm. Pl. col.*
Orites, *Mœhring, Syst. Av.* p. 45, (1752).
Mecistura, *Leach, Syst. Cat. Mam. & B. B. M.* p. 17 (1816).
Acredula, *Koch, Baier. Zool.* p. (1816).
Paroides, *Brehm, Isis*, p. 1284 (1828).
Megistina, *Vieill. Analyse, &c.* p. 31 (1816).

## a. Parus.

### 1. Parus major. The Great Titmouse.

Parus major, *Linn. S. N.* i. p. 341; *Temm. Man. d'Orn.* 1815, p. 165; *Leach, Syst. Cat. Mam. & B. B. M.* p. 16; *Naum. Vög. Deuts.* (1824) iv. p. 9, t. 94, f. 1; *Flem. Brit. An. p.* 80; *Brehm, Vög. Deuts.* p. 461, t. xxiv. f. 2; *Jenyns, Man. B. Vert. An.* p. 121; *Eyton, Cat. Brit. B.* p. 17; *Pr. Bonap. Geogr. Comp. List of B.* p. 19; *Keys. & Bl. Wirbelth. Eur.* p. 43; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 45; *G. R. Gray, Gen. of B.* i. p. 192.

Parus robustus, *Brehm, Vög. Deuts.* p. 461.

Parus fringillago, *Pall. Zoogr.* i. p. 555; *Macgill. Hist. Brit. B.* ii. p. 425.

The Greater Titmouse, *Bew. Brit. B.* (1797) i. p. 237, fig.

Great Titmouse, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 532, pl. lxiv. f. 1; *Selby, Brit. Orn.* i. p. 226.

The Great Tit, *Yarr. Brit. B.* 2 edit. i. p. 358, fig.

*Pl. enl.* 3, f. 1; *Gould, B. of Eur.* pl. 150.

*a.* Devonshire. Male. From Col. Montagu's collection.
*b, c.* Saffron Walden. From Mr. J. Clark's collection.
*d.* Cambridgeshire. Very young. Presented by Mr. J. Baker.
*e.* Cambridgeshire. From Mr. J. Baker's collection.
*f.* ? Sternum. England. Presented by T. Ingall, Esq.

### 2. Parus cæruleus. The Blue Titmouse.

Parus cæruleus, *Linn. S. N.* i. p. 341; *Temm. Man. d'Orn.* 1815, p. 168; *Leach, Syst Cat. Mam. & B. B. M.* p. 16; *Naum. Vög. Deuts.* (1823) iv. p. 62, t. 95, f. 1; *Flem. Brit. An.* p. 80; *Brehm. Vög. Deuts.* p. 462; *Jenyns, Man. B. Vert. An.* p. 122; *Eyton, Cat. Brit. B.* p. 17; *Macgill. Hist. Brit. B.* ii. p. 431; *Pr. Bonap. Geogr. Comp. List of B.* p. 20; *Keys. & Bl. Wirbelth. Eur.* p. 43; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 46; *G. R. Gray, Gen. of B.* i. p. 192.

Parus cærulescens, *Brehm, Vög. Deuts.* p. 463.

Cyanistes cæruleus, *Kaup, Naturl. Syst.* p. 99.

The Blue Titmouse, *Bew. Brit. B.* (1797) i. p. 239, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 534, pl. lxiv. f. 2; *Selby, Brit. Orn.* i. p. 228.

The Blue Tit, *Yarr. Brit. B.* 2 edit. i. p. 362, fig.

*Pl. enl.* 3, f. 2 ; *Gould, B. of Eur.* pl. 154.

*a.* Devonshire. Male. From Col. Montagu's collection.
*b.* Devonshire. Female. From Col. Montagu's collection.
*c*—*e.* Saffron Walden. From Mr. J. Clark's collection.
*f, g.* Cambridgeshire. Young. Presented by Mr. J. Baker.
*h.* Skull. England. Presented by John Ray, Esq.

## b. Pœcile.

### 3. Parus ater. The Cole Titmouse.

Parus ater, *Linn. S. N.* i. p. 341 ; *Temm. Man. d'Orn.* 1815, p. 167 ; *Leach, Syst. Cat. Man. & B. B. M.* p. 17 ; *Naum. Vög. Deuts.* (1823) iv. p. 34, t. 94, f. 2 ; *Flem. Brit. An.* p. 80 ; *Brehm, Vög. Deuts.* p. 466 ; *Jenyns, Man. B. Vert. An.* p. 123 ; *Eyton, Cat. Brit. B.* p. 17 ; *Macgill. Hist. Brit. B.* ii. p. 440 ; *Pr. Bonap. Geogr. Comp. List of B.* p. 20 ; *Keys. & Bl. Wirbelth. Eur.* p. 43 ; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 46 ; *G. R. Gray, Gen. of B.* i. p. 192.
Parus abietum, *Brehm, Vög. Deuts.* p. 466.
Parus carbonarius, *Pall. Zoogr.* i. p. 556.
Poecile ater, *Kaup, Naturl. Syst.* p. 114.
The Cole Titmouse, *Bew. Brit. B.* (1797) i. p. 241, fig. ; *Mont. Orn. Dict. ; Penn. Brit. Zool.* (1812) i. p. 535, pl. lxiv. f. 3 ; *Selby, Brit. Orn.* i. p. 231.
The Cole Tit, *Yarr. Brit. B.* 2 edit. i. p. 369, fig.

*Gould, B. of Eur.* pl. 155, f. 1.

*a.* Devonshire. Male. From Col. Montagu's collection.
*b, c.* Saffron Walden. From Mr. J. Clark's collection.
*d.* Cambridgeshire. Young. Presented by Mr. J. Baker.
*e, f.* Cambridgeshire. Very young. Presented by Mr. J. Baker.

### 4. Parus palustris. The Marsh Titmouse.

Parus palustris, *Linn. S. N.* i. p. 341 ; *Temm. Man. d'Orn.* 1815, p. 170 ; *Leach, Syst. Cat. Mam. & B. B. M.* p. 17 ; *Naum. Vög. Deuts.* (1824) iv. p. 50, t. 94, f. 2 ; *Flem. Brit. An.* p. 80 ; *Brehm, Vög. Deuts.* p. 465 ; *Jenyns, Man. B. Vert. An.* p. 123 ; *Eyton, Cat. Brit. B.* p. 17 ; *Macgill. Hist. Brit. B.* ii. p. 445 ; *Pr. Bonap. Geogr. Comp. List of B.* p. 20 ; *Keys. & Bl. Wirbelth. Eur.* p. 43 ; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 45 ; *G. R. Gray, Gen. of B.* i. p. 192.

Parus atricapillus, *Gmel. S. N.* i. p. 1008.
Parus salicarius, *Brehm, Vög. Deuts.* i. p. 465.
Poecile palustris, *Kaup, Naturl. Syst.* p. 114.
The Marsh Titmouse, *Bew. Brit. B.* (1797) i. p. 242, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 536; *Selby, Brit. Orn.* i. p. 230.
The Marsh Tit, *Yarr. Brit. B.* 2 edit. i. p. 372, fig.

*Pl. enl.* 3, f. 3; *Gould, B. of Eur.* pl. 155, f. 2.

*a.* Great Britain.
*b.* Great Britain.
*c.* Devonshire. Male. From Col. Montagu's collection.
*d.* Devonshire. Female. From Col. Montagu's collection.
*e, f.* Saffron Walden. From Mr. J. Clark's collection.
*g.* Cambridgeshire.
*h.* Skull. England.

## c. LOPHOPHANES.

### 5. PARUS CRISTATUS. The Crested Titmouse.

Parus cristatus, *Linn. S. N.* i. p. 340; *Temm. Man. d'Orn.* 1815, p. 169; *Leach, Syst. Cat. Mam. & B. B. M.* p. 17; *Naum. Vög. Deuts.* (1823) iv. p. 42, t. 94, f. 3; *Flem. Brit. An.* p. 81; *Brehm, Vög. Deuts.* p. 468; *Jenyns, Man. B. Vert. An.* p. 122; *Eyton, Cat. Brit. B.* p. 17; *Macgill. Hist. Brit B.* ii. p. 450; *Pr. Bonap. Geogr. Comp. List of B.* p. 20; *Keys. & Bl. Wirbelth. Eur.* p. 44; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 45; *G. R. Gray, Gen. of B.* i. p. 192.
Parus mitratus, *Brehm, Vög. Deuts.* p. 467.
Lophophanes cristatus, *Kaup, Naturl. Syst.* p. 92.
Crested Titmouse, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 542; *Selby, Brit. Orn.* i. p. 235.
The Crested Tit, *Yarr. Brit. B.* 2 edit. i. p. 366, fig.

*Pl. enl.* 502, f. 2; *Gould, B. of Eur.* pl. 156.

*a.* Great Britain? From Mr. Gould's collection.
*b.* Great Britain.

## d. ORITES.

### 6. PARUS CAUDATUS. The Long-tailed Titmouse.

Parus caudatus, *Linn. S. N.* i. p. 342; *Temm. Man. d'Orn.* 1815, p. 173; *Naum. Vög. Deuts.* (1823) iv. p. 82, t. 95, f. 4, 5, 6;

*Flem. Brit. An.* p. 81; *Jenyns, Man. B. Vert. An.* p. 124; *Eyton, Cat. Brit. B.* p. 17; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 46; *G. R. Gray, Gen. of B.* i. p. 192.
Lanius caudatus. *Linn. Faun. Suec.* p. 28.
Lanius biarmicus, *Linn. Faun. Suec.* p. 29.
Parus longicaudatus, *Briss. Orn.* iii. p. 570.
Orites caudata, *Mœhring, Syst. Av.* p. 45.
Mecistura vagans, *Leach, Syst. Cat. Mam. & B. B. M.* p. 17.
Acredula caudata, *Koch, Baier, Zool.* i. p. 200; *Kaup, Naturl. Syst.* p. 27.
Mecistura caudata, *Pr. Bonap. Geogr. Comp. List of B.* p. 20.
Parus (Mecistura) caudata, *Keys. & Bl. Wirbelth. Eur.* p. 43.
Paroides caudatus, *Brehm, Vög. Deuts.* p. 471.
Paroides longicaudus, *Brehm, Vog. Deuts.* p. 470.
Ægithalus caudatus, *Boie, Isis* (1825), p. 556.
Mecistura longicaudata, *Macgill. Hist. Brit. B.* ii. p. 454.
Mecistura rosea, *Bl.?*
The Long-tailed Titmouse, *Bew. Brit. B.* (1797) i. p. 243, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. 537; *Selby, Brit. Orn.* i. p. 233.
The Long-tailed Tit, *Yarr. Brit. B.* 2 edit. ii. p. 376, fig.
*Pl. enl.* 502, f. 3; *Gould, B. of Eur.* pl. 157.

*a.* Devonshire. From Col. Montagu's collection.
*b.* Saffron Walden. From Mr. J. Clark's collection.
*c.* Sternum. England. Presented by T. Ingall, Esq.

## 2. PAROIDÈS.

Paroides, *Koch, Baier. Zool.* i. p. (1816).
Ægithalus, *Boie, Isis* (1822), p. 556.
Pendulinus, *Brehm, Isis* (1828), p. 1284.
Panurus, *Koch, Baier. Zool.* i. p. (1816).
Calamophilus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 17 (1816).
Mystacinus, *Boie, Isis* (1822), p. 556.

### a. PANURUS.

#### 1. PAROIDES BIARMICUS. The Bearded Titmouse.

Parus biarmicus, *Linn. S. N.* i. p. 342; *Temm. Man. d'Orn.* 1815, p. 174; *Naum. Vög. Deuts.* (1823) iv. p. 98, t. 96; *Flem. Brit. An.* p. 81; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 47.

Paroides biarmicus, *G. R. Gray, Gen. of B.* i. p. 193.
Lanius biarmicus, *Brün. Orn.* p. 8.
Parus barbatus, *Briss. Orn.* iii. p. 567.
Parus russicus, *Gmel. S. N.* ii. p. 164, t. 10.
Panurus biarmicus, *Koch, Baier. Zool.* i. p. 202; *Kaup, Naturl. Syst.* p. 32.
Mystacinus biarmicus, *Boie, Isis* (1822), p. 556; *Brehm, Vög. Deuts.* p. 473.
Ægythalus biarmicus, *Boie, Isis* (1826), p. 975.
Calamophilus biarmicus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 17; *Eyton, Cat. Brit. B.* p. 18; *Jenyns, Man. B. Vert. An.* p. 125; *Macgill. Hist. Brit. B.* iii. p. 694; *Pr. Bonap. Geogr. Comp. List of B.* p. 20.
Calamophilus barbatus, *Keys. & Bl. Wirbelth. Eur.* p. 43.
Mystacinus russicus, *Brehm, Vög. Deuts.* p. 472.
Mystacinus arundinaceus, *Brehm, Vög. Deuts.* p. 474.
Mystacinus dentatus, *Brehm, Vög. Deuts.* p. 474.
The Bearded Titmouse, *Bew. Brit. B.* (1797) i. p. 246, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 540; *Selby, Brit. Orn.* i. p. 236.
The Bearded Tit, *Yarr. Brit. B.* 2 edit. ii. p. 381, fig.
*Pl. enl.* 618, f. 1, 2; *Gould, B. of Eur.* pl. 158.

*a.* Sussex. Male. From Col. Montagu's collection.
*b.* Sussex. Female. From Col. Montagu's collection.
*c—e.* Cambridgeshire. Presented by Mr. J. Baker.
*f.* Cambridgeshire. Young. Presented by Mr. J. Baker.
*g—i.* Three Sterna. England. Presented by T. Ingall, Esq.
*j.* Sternum. England. Presented by John Ray, Esq.
*k.* Skull. England. Presented by John Ray, Esq.

## v. *Motacillinæ.*

### 1. MOTACILLA.

Motacilla, *Linn. S. N.* (1735).
Budytes, *Cuv. Règ. An.* (1817) i. p. 371.
Calobates, *Kaup, Naturl. Syst. der Eur. Thier.* p. 33 (1829).

#### a. Motacilla.

##### 1. Motacilla alba. The White Wagtail.

Motacilla alba, *Linn. S. N.* i. p. 331; *Leach, Syst. Cat. Mam. & B. B. M.* p. 22; *Naum. Vög. Deuts.* (1823) iii. p. 803, t. 86, f. 1, 2,

3 ; *Brehm, Vög. Deuts.* p. 347 ; *Macgill. Hist. Brit. B.* ii. p. 221 ; *Temm. Man. d'Orn.* (1820) i. p. 255, iii. p. 178 ; *Pr. Bonap. Geogr. Comp. List of B.* p. 19 ; *Keys. & Bl. Wirlbeth. Eur.* p. 49 ; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 37 ; *G. R. Gray, Gen. of B.* i. p. 203.

Motacilla cinerea, *Linn. S. N.* i. p. 961.

Motacilla albeola, *Pall. Zoogr.* i. p. 506.

Motacilla septentrionalis, *Brehm, Vög. Deuts.* p. 347.

Motacilla sylvestris, *Brehm, Vög. Deuts.* p. 348, t. xx. f. 5.

Motacilla brachyrhynchos, *Brehm, Vög. Deuts.* p. 348.

Motacilla albida, *Gmel. S. N.* i. p. 77 ; *Jacq. Beitr.* t. 8.

Motacilla Brissoni, *Macgill. Man. N. H. Ornith.* i. p. 160

The White Wagtail, *Yarr. Brit. B.* 2 edit. i. p. 403, fig.

*Pl. enl.* 652, f. 1, 2, 674, f. 1. ; *Gould, Br. Eur.* pl. 143.

(Kingsbridge, Carlisle, and Falmouth).

2. MOTACILLA YARRELLII. The Pied Wagtail.

Motacilla alba, *Flem. Brit. An.* p. 72 ; *Jenyns, Man. B. Vert. An.* p. 114.

Motacilla Yarrellii, *Gould, Macgill. Hist. Brit. B.* ii. p. 225 ; *Pr. Bonap. Geogr. Comp. List of B.* p. 19 ; *Keys. & Bl. Wirbelth. Eur.* p. 49 ; *G. R. Gray, Gen. of B.* i. p. 203.

Motacilla lugubris, *Pall.? Temm. Man. d'Orn.* (1820) i. p. 253, iii. p. 175 ; *Pr. Bonap. Geogr. Comp. List of B.* p. 19.

Motacilla alba lugubris, *Schleg. Rev. Crit. des Ois. Eur.* p. 37.

White Wagtail, *Penn. Brit. Zool.* (1812) i. p. 489 ; *Mont. Orn. Dict.*

The Pied Wagtail, *Bew. Brit. B.* (1797) i. p. 188, fig. ; *Selby, Brit. Orn.* i. p. 208 ; *Yarr. Brit. B.* 2 edit. i. p. 395, fig.

*Gould, B. of Eur.* pl. 142.

*a*, *b*. Great Britain. From Mr. Gould's collection.

*c*. Great Britain.

*d*. Wiltshire. From Col. Montagu's collection.

*e*. Devonshire. Variety. Presented by C. Prideaux, Esq.

*f*. Bristol? Variety. Presented by J. Raddon, Esq.

*g*, *h*. Cambridgeshire. Young. Presented by Mr. J. Baker.

*i*. Saffron Walden. Young. From Mr. J. Clark's collection.

*j*. Cambridgeshire. Male. From Mr. J. Baker's collection.

*k*. Cambridgeshire. Young. From Mr. J. Baker's collection.

*l*. Sternum. England. Presented by T. Ingall, Esq.

*m*. Sternum. England. Presented by John Ray, Esq.

## b. Calobates.

### 3. Motacilla sulphurea. The Grey Wagtail.

Motacilla boarula, *Penn. Brit. Zool.* i. p. 492; *Flem. Brit. An.* p. 74; *Jenyns, Man. B. Vert. Anim.* p. 115; *G. R. Gray, Gen. of B.* i. p. 203; *Pr. Bonap. Geogr. Comp. List of B*, p. 19; *Keys. & Bl. Wirbelth. Eur.* p. 49; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 37.

Budytes boarula, *Eyton, Cat. Brit. B.* p. 15.

Motacilla melanopa, *Pall. Zoogr.* i. p. 500.

Motacilla cinerea, *Leach, Syst. Cat. Mam. & B. B. M.* p. 22.

Motacilla sulphurea, *Bechst. Naturg. Deuts.* iii. p. 459; *Naum. Vög. Deuts.* iii. p. 824, t. 87, f. 1, 2, 3; *Brehm, Vög. Deuts.* p. 346.

Motacilla montium, *Brehm, Vög. Deuts.* p. 345.

Calobates sulphurea, *Kaup, Naturl. Syst.* p. 33.

The Grey Wagtail, *Bew. Brit. B.* (1797) i. p. 190, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 492; *Selby, Brit. Orn.* i. p. 209; *Yarr. Brit. B.* 2 edit. ii. p. 407, fig.

*Pl. enl.* 28, f. 1; *Gould, B. of Eur.* pl. 147.

*a*. Wiltshire. Summer, female. From Col. Montagu's collection.
*b*. Wiltshire. Summer, male, From Col. Montagu's collection.
*c*. Wiltshire. Winter, male. From Col. Montagu's collection.
*d*. Wiltshire. Winter, female. From Col. Montagu's collection.
*e*. Saffron Walden. From Mr. J. Clark's collection.
*f*. Cambridgeshire. Female. From Mr. J. Baker's collection.
*g*. Sternum. England. Presented by John Ray, Esq.

## c. Budytes.

### 4. Motacilla flava. The Grey-headed Wagtail.

Motacilla flava, *Linn. S. N.* i. p. 331; *Temm. Man. d'Orn.* 1815, p. 146 (1820) i. p. 260, iii. p. 181; *Naum. Vög. Deuts.* (1823) iii. p. 839, t. 88; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 38; *G. R. Gray, Gen. of B.* i. p 203.

Motacilla flaveola, *Pall. Zoogr.* i. p. 501.

Motacilla neglecta, *Gould, Proc. Z. S.* (1832) p. 129; *Jenyns, Man. B. Vert. An.* p. 116.

Motacilla boarula, *Linn. Mant.* p. 527.

Budytes boarula, *Brehm, Vög. Deuts.* p. 343.

Motacilla Feldseggi, *Michael.*

Motacilla chrysogaster, *Bechst. Naturg. Deuts.* iii. p. 446.

Motacilla cinereo-capilla, *Savi, Ornith. Tosc.* iii. p. 216; *Pr. Bonap. Fauna Italica*, t. 31, f. 2.
Motacilla melano-cephala, *Licht. Verz. der Doubl. des Zool.* 1823, p. 36; *Savi, Ornit. Tosc.* iii. p. 219; *Pr. Bonap. Fauna Ital.* t. 31, f. 1.
Budytes Beema, *Sykes, Proc. Z. S.* (1832), p. 90.
Budytes flava, *Cuv., Pr. Bonap. Geogr. Comp. List of B.* p. 18.
Motacilla (Budytes) flava, *Keys. & Bl. Wirbelth. Eur.* p. 49.
Budytes Gouldii, *Macgill. Man. N. H. Ornith.* i. p. 163.
Budytes flavus, *Cuv. Règ. An.* (1817) i. p. 371; *Brehm, Vög. Deuts.* p. 344, t. xx. f. 4; *Macgill. Hist. Brit. B.* ii. p. 208.
The Grey-headed Wagtail, *Yarr. Brit. B.* 2 edit. i. p. 412, fig.
*Gould, B. of Eur.* pl. 146.

*a*, *b*. Wiltshire. From Col. Montagu's collection.
*c*, *d*. Great Britain. From Mr. Gould's collection.

### 5. Motacilla campestris. Ray's Wagtail.

Motacilla flâva (*Ray*), *Flem. Brit. An.* p. 74; *Jenyns, Man. B. Vert. An.* p. 115.
Motacilla flaveola, *Temm. Man. d'Orn.* iii. p. 183.
Motacilla campestris, *Pall. It.* iii. p. 696; *Keys. & Bl. Wirbelth. Eur.* p. 49; *G. R. Gray, Gen. of B.* i. p. 203.
Budytes Rayii, *Pr. Bonap. Geogr. Comp. List of B.* p. 18; *Macgill. Hist. Brit. B.* ii. p. 212.
Budytes flava, *Eyton, Cat. Brit. B.* p. 15.
Motacilla flava Rayi, *Schleg. Rev. Crit. des Ois. d'Eur.* p. 38.
The Yellow Wagtail, *Bew. Brit. B.* (1797) i. p. 191, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 491; *Selby, Brit. Orn.* i. p. 211.
Ray's Wagtail, *Yarr. Brit. B.* 2 edit. i. p. 418, fig.
*Gould, B. of Eur.* pl. 145.

*a*. Great Britain. From Mr. Gould's collection.
*b*. Wiltshire. Male. From Col. Montagu's collection.
*c*. Great Britain.
*d*. Great Britain. From Mr. Gould's collection.
*e*. Wiltshire. From Col. Montagu's collection.
*f*. Cambridgeshire. Male. From Mr. J. Baker's collection.
*g*. Cambridgeshire. Female. From Mr. J. Baker's collection.
*h*. Sternum. England. Presented by T. Ingall, Esq.
*i*. Sternum. England. Presented by John Ray, Esq.

## 2. ANTHUS.

Anthus, *Bechst. Naturg. Deuts.* iii. p. (1802).
Spipola, *Leach, Syst. Cat. Mam. & B. B. M.* p. 21 (1816).
Corydalla, *Vigors, Zool. Journ.* ii. p. 397 (1825).
Pipastes, *Kaup, Naturl. Syst. der Eur. Thier.* p. 33 (1829).
Leiomoniptera, *Kaup, Naturl. Syst. der Eur. Thier.* p. 39 (1829).
Agrodroma, *Swains. Classif. of B.* ii. p. 241 (1837).
Macronyx, *Swains. Classif. of B.* ii. p. 293 (1837).

### a. CORYDALLA.

#### 1. ANTHUS RICHARDII. Richard's Pipit.

Anthus Richardii, *Vieill. N. Dict. d'Hist. Nat.* xxvi. p. 491; *Vigors, Zool. Journ.* i. p. 411, pl. 14; *Temm. Man. d'Orn.* (1820) i. p. 263; *Flem. Brit. An.* p. 75; *Jenyns, Man. B. Vert. An.* p. 117; *Eyton, Cat. Brit. B.* p. 16; *Pr. Bonap. Geogr. Comp. List of B.* p. 18; *Keys. & Bl. Wirbelth. Eur.* p. 48; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 36; *G. R. Gray, Gen. of B.* i. p. 206.
Anthus rupestris, *Menetr. Catal.* p. 37.
Corydalla Richardii, *Vigors, Zool. Journ.* (1825) p. 397; *Brehm, Vög. Deuts.* p. 323.
Richard's Pipit, *Yarr. Brit. B.* 2 edit. i. p. 436, fig.

*Pl. col.* 101.

*a*. Bermondsey.

### b. ANTHUS.

#### 2. ANTHUS PRATENSIS. The Meadow Pipit.

Alauda pratensis, *Linn. Faun. Suec.* p. 76.
Alauda trivialis (*Linn.*) *Mont. Orn. Dict.*
Spipila pratensis, *Leach, Syst. Cat. Mam. & B. B. M.* p. 21.
Anthus pratensis, *Bechst. Naturg. Deuts.* iii. p. 732; *Temm. Man. d'Orn.* 1815, p. 151; *Naum. Vög. Deuts.* (1823) iii. p. 774, t. 84, f. 3, t. 94, f. 1; *Flem. Brit. An.* p. 75; *Jenyns, Man. B. Vert. An.* p. 117; *Eyton, Cat. Brit. B.* p. 15; *Macgill. Hist. Brit. B.* ii. p. 181; *Pr. Bonap. Geogr. Comp. List of B.* p. 18; *Keys. & Bl. Wirbelth. Eur.* p. 48; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 35; *G. R. Gray, Gen. of B.* i. p. 206.
Anthus sepiarius, *Vieill. Faun. Franc.* p. 177, t. 77, f. 2, 3.

Alauda mosellana, *Gmel. S. N.* i. p. 794.
Leimoniptera pratensis, *Kaup, Naturl. Syst.* p. 39.
Anthus stagnatilis, *Brehm, Vög. Deuts.* p. 332.
Anthus danicus, *Brehm, Vög. Deuts.* p. 333.
Anthus pratorum, *Brehm, Vög. Deuts.* p. 333.
Anthus palustris, *Brehm, Vög. Deuts.* p. 334.
Anthus alticeps, *Brehm, Vög. Deuts.* p. 335.
Anthus tenuirostris, *Brehm, Vög. Deuts.* p. 335.
Anthus musicus, *Brehm, Vög. Deuts.* p. 336.
Anthus virescens, *Brehm, Vög. Deuts.* p. 337.
Anthus Lichtensteini, *Brehm, Vög. Deuts.* p. 338.
Anthus desertorum, *Brehm, Vög. Deuts.* p. 338.
Anthus montanellus, *Brehm, Vög. Deuts.* p. 339.
The Tit Lark, *Bew. Brit. B.* (1797) i. p. 185, fig.; *Penn. Brit. Zool.* (1812) i. p. 481.
Pipit Lark, *Mont. Orn. Dict.*
The Meadow Pipit or Tit, *Selby, Brit. Orn.* i. p. 216.
The Meadow Pipit, *Yarr. Brit. B.* 2 edit. i. p. 427, fig.

*Pl. enl.* 660, f. 2; *Gould, B. of Eur.* pl. 136.

*a*. Wiltshire. Male. From Col. Montagu's collection.
*b*. Wiltshire. Female. From Col. Montagu's collection.
*c*. Surrey. Variety.
*d*. London. Variety.
*e*. ——— ?
*f*. Cambridgeshire. Presented by Mr. J. Baker.
*g*. Cambridgeshire. Male. From Mr. J. Baker's collection.
*h*. Cambridgeshire. Female. From Mr. J. Baker's collection.

### 3. Anthus arboreus. The Tree Pipit.

Alauda trivialis, *Linn. S. N.* i. p. 288.
Alauda minor, *Mont. Orn. Dict.*
Anthus arboreus, *Bechst. Naturg. Deuts.* iii. p. 706; *Temm. Man. d'Orn.* 1815, p. 153; *Naum. Vög. Deuts.* (1823) iii. p. 758, t. 84, f. 2; *Jenyns, Man. B. Vert. An.* p. 118; *Macgill. Hist. Brit. B.* ii. p. 174; *Pr. Bonap. Geogr. Comp. List of B.* p. 18; *Keys. & Bl. Wirbelth. Eur.* p. 48; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 36; *G. R. Gray, Gen. of B.* i. p. 206.
Motacilla spipola, *Pall. Zoogr.* i. p. 512.
Alauda turdinæ, *Scop.*
Anthus trivialis, *Flem. Brit. An.* p. 75; *Eyton, Cat. Brit. B.* p. 15.
Pipastes arboreus, *Kaup, Naturl. Syst.* p. 33.
Anthus foliorum, *Brehm, Vög. Deuts.* p. 326.

Anthus juncorum, *Brehm, Vög. Deuts.* p. 326.
Anthus herbarum, *Brehm, Vög. Deuts.* p. 327.
The Field Lark, *Bew. Brit. B.* (1797) i. p. 180? *Penn. Brit. Zool.* (1812) i. p. 484?
The Grasshopper Lark, *Bew. Brit. B.* (1797) i. p. 181.
Tree Pipit, *Selby, Brit. Orn.* i. p. 218; *Yarr. Brit. B.* 2 edit. i. p. 422, fig.

*Pl. enl.* 660, f. 1; *Gould, B. of Eur.* pl. 139.

*a.* Devonshire. From Col. Montagu's collection.

### 4. Anthus obscurus. The Rock Pipit.

Alauda obscura, *Lath. Ind. Orn.* ii. p. 494.
Spipila obscura, *Leach, Syst. Cat. Mam. & B. B. M.* p. 22.
Alauda petrosa, *Mont. Linn. Trans.* iv. p. 41.
Anthus obscurus, *Keys. & Bl. Wirbelth. Eur.* p. 48; *Macgill. Man. N. H. Ornith.* i. p. 168; *G. R. Gray, Gen. of B.* i. p. 206.
Anthus aquaticus, *Temm. Man. d'Orn.* 1815, p. 149 (part); *Macgill. Hist. Brit. B.* ii. p. 194; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 35.
Anthus rupestris, *Wils. Orn. Suec.* i. p. 245, t. 9; *Brehm, Vög. Deuts.* p. 330; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 35.
Anthus montanus, *Koch, Baier. Zool.* i. p. 172.
Anthus petrosus, *Flem. Brit. An.* p. 74; *Jenyns, Man. B. Vert. An.* p. 118.
Anthus littoralis, *Brehm, Vög. Deuts.* p. 331.
Anthus spinoletta, *Pr. Bonap. Geogr. Comp. List of B.* p. 18; *Keys. & Bl. Wirbelth. Eur.* p. 48.
Dusky Lark, *Lew. Brit. B.* pl. 94; *Penn. Brit. Zool.* (1812) i. p. 482.
Rock Lark, *Mont. Orn. Dict.*
Rock or Shore Pipit, *Selby, Brit. Orn.* i. p. 214.
Rock Pipit, *Yarr, Brit. B.* 2 edit. i. p. 432, fig.

*Penn. Brit. Zool.* (folio) pl. 1, f. 2; *Gould, B. of Eur.* pl. 138.

(On the coast from Kent to Land's End, Wales and Ireland).

### 5. Anthus ludovicianus. The Red Lark.

Alauda spinoletta, *Linn. S. N.* i. p. 288?
Alauda rubra, *Gmel. S. N.* i. p. 794; *Flem. Brit. An.* p. 79; *Jenyns, Man. B. Vert. An.* p. 126.
Alauda ludoviciana, *Gmel. S. N.* i. p. 793.
Alauda rufa, *Wils. Amer. Orn.* pl. 42, f. 2.
Anthus spinoletta, *Pr. Bonap. Synop. of B. of Am.* p. 90; *Macgill. Man. N. H. Ornith.* i. p. 169.

Anthus aquaticus, *Rich. & Sw. Faun. Bor. Amer.* p. 231; *Temm. Man. d'Orn.* iii. p. 623.
Anthus ludovicianus, *Licht., Pr. Bonap. Geogr. Comp. List of B.* p. 18; *G. R. Gray, Gen. of B.* i. p. 206.
Red Lark, *Mont. Orn. Dict. App.; Penn. Brit. Zool.* (1812) i. p. 486.

*Edwards' Birds*, pl. 297; *Lewin, Brit. B.* pl. 93.

(Near Edinburgh).

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## Fam. II. TURDIDÆ.

### i. *Formicarinæ.*

### 1. HYDROBATA.

Hydrobata, *Vieill. Analyse*, p. 42 (1816).
Cinclus, *Bechst. Ornith. Taschenb.* i. p. 206 (1802).
Aquatilis, *Mont. Orn. Dict. Append.* (1813).

1. Hydrobata cinclus. The Common Dipper.

Sturnus cinclus, *Linn. Fauna Suec.* p. 78.
Hydrobata cinclus, *G. R. Gray, Gen. of B.* i. p. 215.
Turdus cinclus, *Lath. Ind. Orn.* i. p. 343.
Cinclus aquaticus, *Bechst. Ornith. Taschenb.* i. p. 206; *Temm. Man. d'Orn.* 1815, p. 97; *Naum. Vög. Deuts.* (1823) iii. p. 925, t. 91, f. 1—3; *Flem. Brit. An.* p. 67; *Jenyns, Man. B. Vert. An.* p. 98; *Brehm, Vög. Deuts.* p. 395; *Eyton, Cat. Brit. B.* p. 9; *Pr. Bonap. Geogr. Comp. List of B.* p. 19; *Keys. & Bl. Wirbelth. Eur.* p. 47; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 43.
Aquatilis cinclus, *Mont. Orn. Dict. Suppl.*
Cinclus europæus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 21; *Macgill. Hist. Brit. B.* ii. p. 50.
Hydrobata albicollis, *Vieill. Encyc. Meth.* p. 77.
Cinclus medius, *Brehm, Vög. Deuts.* p. 395, t. xxii. f. 2.
Cinclus septentrionalis, *Brehm, Vög. Deuts.* p. 396.
Cinclus melanogaster, *Brehm, Vög. Deuts.* p. 396.
Water Ouzel, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 398.
European Dipper, *Selby, Brit. Orn.* i. p. 162.
The Common Dipper, *Yarr. Brit. B.* 2 edit. i. p. 181, fig.
Penrith Ouzel, *Penn. Brit. Zool.* i. p. 399, pl. 41.

*Pl. enl.* 940; *Gould, B. of Eur.* pl. 83, 84.

*a*. Monmouthshire. Female. From Col. Montagu's collection.
*b*. Carmarthenshire. Male. From Col. Montagu's collection.
*c*, *d*. England. Presented by W. B. Spence, Esq.
*e*. Inverness. Male. From Mr. J. Baker's collection.

## ii. *Turdinæ*.

### 1. TURDUS.

Turdus, *Linn. S. N.* (1735).
Merula, *Leach, Syst. Cat. Mam. & B. B. M.* p. 20 (1816).
Ixocossyphus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 145 (1829).
Arceuthornis, *Kaup, Naturl. Syst. der Eur. Thier.* p. 93 (1829).
Cichloïdes, *Kaup, Naturl. Syst. der Eur. Thier.* p. 153 (1829).
Copsichus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 157 (1829).
Monticola, *Boie, Isis* (1822), p. 552.
Petrocossyphus, *Boie, Isis* (1826), p. 972.
Petrocincla, *Vigors, Zool. Journ.* (1825) p. 396.
Petrophila, *Swains. Classif. of B.* ii. p. 232 (1837).
Orocetes, *G. R. Gray, List of Gen. of B*, i. p. 21 (1840).
Geocichla, *Kuhl.*
Oreocincla, *Gould, Proc. Z. S.* (1837), p. 145.

#### a. TURDUS.

##### 1. Turdus viscivorus. The Missel Thrush.

Turdus viscivorus, *Linn. S. N.* i. p. 291; *Temm. Man. d'Orn.* 1815, p. 86; *Leach, Syst. Cat. Mam. & B. B. M.* p. 20; *Naum. Vög. Deuts.* (1823) ii. p. 248, t. 66, f. 1; *Flem. Brit. An.* p. 64; *Brehm, Vög. Deuts.* p. 380; *Eyton, Cat. Brit. B.* p. 9; *Jenyns, Man. B. Vert. An.* p. 99; *Macgill. Hist. Brit. B.* ii. p. 114; *Pr. Bonap. Geogr. Comp. List of B.* p. 17; *Keys. & Bl. Wirbelth. Eur.* p. 51; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 39; *G. R. Gray, Gen. of B.* i. p. 218.
Ixocossyphus viscivorus, *Kaup, Naturl. Syst.* p. 145.
Turdus major, *Brehm, Vög. Deuts.* p. 379.
Turdus arboreus, *Brehm, Vög. Deuts.* p. 380.
Sylvia viscivora, *Savi, Ornit. Tosc.* i. p. 208.
Missel Thrush, *Bew. Brit. B.* (1797) i. p. 96; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 401; *Selby, Brit. Orn.* i. p. 150; *Yarr. Brit. B.* 2 edit. i. p. 187.
*Gould. B. of Eur.* pl. 77.

*a*. Devonshire. Female. From Col. Montagu's collection.
*b*. England. From Mr. Gould's collection.
*c*, *d*. Cambridgeshire. Young. Presented by Mr. J. Baker.
*e*, *f*. Cambridgeshire. Adult. From Mr. J. Baker's collection.
*g*. Sternum. England. Presented by T. Ingall, Esq.

### 2. Turdus pilaris. The Fieldfare.

Turdus pilaris, *Linn. S. N.* i. p. 291; *Temm. Man. d'Orn.* 1815, p. 87; *Leach, Syst. Cat. Mam. & B. B. M.* p. 20; *Naum. Vög. Deuts.* (1822) ii. p. 296, t. 67, f. 2; *Flem. Brit. An.* p. 65; *Brehm, Vög. Deuts.* p. 383; *Eyton, Cat. Brit. B.* p. 9; *Jenyns, Man. B. Vert. An.* p. 99; *Macgill. Hist. Brit. B.* ii. p. 105; *Pr. Bonap. Geogr. Comp. List of B.* p. 17; *Keys. & Bl. Wirbelth. Eur.* p. 51; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 39; *G. R. Gray, Gen. of B.* i. p. 218.
Arceuthornis pilaris, *Kaup, Naturl. Syst.* p. 93.
Turdus subpilaris, *Brehm, Vög. Deuts.* p. 384.
Turdus juniperorum, *Brehm, Vög. Deuts.* p. 385.
Turdus musicus, *Pall. Zoogr.* i. p. 454.
Sylvia pilaris, *Savi, Ornit. Tosc.* i. p. 209.
The Fieldfare, *Bew. Brit. B.* (1797) i. p. 98, fig.; *Penn. Brit. Zool.* (1812) i. p. 404; *Selby, Brit. Orn.* i. p. 152; *Yarr. Brit. B.* 2 edit. i. p. 199, fig.

*Gould, B. of Eur.* pl. 76.

*a*. Devonshire. Male. From Col. Montagu's collection.
*b*. England. From Mr. Gould's collection.
*c*. Cambridgeshire. From Mr. J. Clark's collection.
*d*—*f*. Epping. Presented by Henry Doubleday, Esq.
*g*. Sternum. England. Presented by T. Ingall, Esq.
*h*. Sternum. England. Presented by John Ray, Esq.

### 3. Turdus musicus. The Song Thrush.

Turdus musicus, *Linn. S. N.* i. p. 292; *Temm. Man. d'Orn.* 1815, p. 88; *Leach, Syst. Cat. Mam. & B. B. M.* p. 20; *Naum. Vög. Deuts.* (1823), ii. p. 262, t. 66, f. 2; *Flem. Brit. An.* p. 64; *Brehm, Vög. Deuts.* p. 382; *Eyton, Cat. Brit. B.* p. 9; *Jenyns, Man. B. Vert. An.* p. 100; *Macgill. Hist. Brit. B.* ii. p. 127; *Pr. Bonap. Geogr. Com. List of B.* p. 17; *Keys. & Bl. Wirbelth. Eur.* p. 50; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 40; *G. R. Gray, Gen. of B.* i. p. 218.
Turdus minor, *Brehm, Vög. Deuts.* p. 382.

Turdus philomelos, *Brehm, Vög. Deuts.* p. 382.
Turdus pilaris, *Pall. Zoogr.* i. p. 455.
Sylvia musica, *Savi, Ornit. Tosc.* i. p. 211.
The Throstle, *Bew. Brit. B.* (1797) i. p. 100, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812), i. p. 407.
Song Thrush, *Selby, Brit. Orn.* i. p. 154; *Yarr. Brit. B.* 2 edit. i. p. 202, fig.

*Gould, B. of Eur.* pl. 78, f. 1.

*a.* Devonshire. Male. From Col. Montagu's collection.
*b.* Surrey. Very young.
*c.* England. From Mr. Gould's collection.
*d*, *e.* Epping. Presented by Henry Doubleday, Esq.
*f.* Saffron Walden. From Mr. J. Clark's collection.
*g.* Cambridgeshire. Variety. Presented by J. Clark, Esq.
*h*, *i.* Cambridgeshire. Presented by Mr. J. Baker.
*j.* Sternum. England. Presented by T. Ingall, Esq.

### 4. Turdus iliacus. The Redwing.

Turdus iliacus, *Linn. S. N.* i. p. 292; *Temm. Man. d'Orn.* 1815, p. 89; *Leach, Syst. Cat. Mam. & B. B. M.* p. 20; *Naum. Vög. Deuts.* (1822) ii. p. 276, t. 67; *Flem. Brit. An.* p. 65; *Brehm, Vög. Deuts.* p. 385; *Eyton, Cat. Brit. B.* p. 9; *Macgill. Hist. Brit. B.* ii. p. 141; *Pr. Bonap. Geogr. Comp. List of B.* p. 17; *Keys. & Bl. Wirbelth. Eur.* p. 50; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 40; *G. R. Gray, Gen. of B.* i. p. 218.
Turdus betularum, *Brehm, Vög. Deuts.* p. 386.
Turdus vinetorum, *Brehm, Vög. Deuts.* p. 386.
Sylvia iliaca, *Savi, Ornit. Tosc.* i. p. 215.
The Redwing, *Bew. Brit. B.* (1797) i. p. 102, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 409; *Selby, Brit. Orn.* i. p. 156; *Yarr. Brit. B.* 2 edit. i. p. 207, fig.

*Gould, B. of Eur.* pl. 78, f. 2.

*a.* Devonshire. Male. From Col. Montagu's collection.
*b.* Devonshire. Variety. From Col. Montagu's collection.
*c.* Cambridgeshire. Male. From Mr. J. Baker's collection.
*d.* Cambridgeshire. Female. From Mr. J. Baker's collection.
*e.* Surrey. Female.
*f.* Saffron Walden. From Mr. J. Clark's collection.
*g.* Sternum. England. Presented by T. Ingall, Esq.

## b. Oreocincla.

### 5. Turdus Whitei. White's Thrush.

Turdus Dauma, *Lath. Ind. Orn.* i. p. 362?
Turdus varius, *Horsf. Linn. Trans.* xiii. p. 149? *Jenyns, Man. B. Vert. An.* p. 101; *Macgill. Hist. Brit. B.* ii. p. 146; *Keys. & Bl. Wirbelth. Eur.* p. 52; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 42.
Turdus Whitei, *Eyton, Hist. R. Brit. B.* p. 92, fig.; *Keys. & Bl. Wirbelth. Eur.* p. 52; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 41, 1; *Harvey, Fauna of Cork*, p. 6; *Allm. Ann. Nat. Hist.* xii. p. 78: *G. R. Gray, Gen. of B.* i. p. 218.
Turdus varius seu Whitei, *Temm. Man. d'Orn.* iv. p. 602.
Turdus aureus, *Holandre, Fauna de la Moselle*, p. 60.
Oreocincla Whitei, *Gould, Proc. Z. S.* 1837, p. 45; *Pr. Bonap. Geogr. Comp. List of B.* p. 17.
White's Thrush, *Yarr. Brit. B.* 2 edit. i. p. 192, fig.

*Gould, B. of Eur.* pl. 81.

(Near Christchurch, and New Forest).

## c. Monticola.

### 6. Turdus saxatilis. The Rock Thrush.

Turdus saxatilis, *Gmel. S. N.* i. p. 833; *Temm. Man. d'Orn.* 1815, p. 92; *Naum. Vög. Deuts.* (1822), ii. p. 348, t. 73: *Schleg. Rev. Crit. des Ois. d'Eur.* p. 42; *G. R. Gray, Gen. of B.* i. p. 220.
Lanius infaustus, *Gmel. S. N.* i. p. 310.
Saxicola montana, *Koch, Baier. Zool.* i. p. 185.
Petrocincla saxatilis, *Vigors, Zool. Journ.* (1825) p. 396; *Pr. Bonap. Geogr. Comp. List of B.* p. 16.
Sylvia saxatilis, *Savi. Ornit. Tosc.* i. p. 219.
Monticola saxatilis, *Boie, Isis* (1822), p. 552.
Petrocossyphus saxatilis, *Boie, Isis* (1826), p. 972; *Brehm, Vög. Deuts.* p. 369, t. xxi. f. 5.
Petrocossyphus Goureyi, *Brehm, Vög. Deuts.* p. 370.
Petrocossyphus polyglottus, *Brehm, Vög. Deuts.* p. 370.
Petrocichla saxatilis, *Keys. & Bl. Wirbelth. Eur.* p. 50.
The Rock Thrush, *Yarr. Brit. B.* 2 edit. i. p. 235, fig.

*Pl. enl.* 562; *Gould, B. of Eur.* pl. 86.

(Therfield, Herts).

## d. MERULA.

### 7. TURDUS TORQUATUS. The Ring Ouzel.

Turdus torquatus, *Linn. S. N.* i. p. 296; *Temm. Man. d'Orn.* 1815, p. 90; *Leach, Syst. Cat. Mam. and B. B. M.* p. 20; *Naum. Vög. Deuts.* (1822), ii. p. 318, t. 70; *Flem. Brit. An.* p. 65; *Macgill. Hist. Brit. B.* ii. p. 100; *Keys. & Bl. Wirlbeth. Eur.* p. 51; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 41; *G. R. Gray, Gen. of B.* i. p. 219.

Copsichus torquatus, *Kaup, Naturl. Syst.* 157.

Merula torquata, *Boie, Isis* (1822), p. 552; *Brehm, Vög. Deuts.* p. 374; *Pr. Bonap. Geogr. Comp. List of B.* p. 17.

Merula montana, *Brehm, Vög. Deuts.* p. 375.

Merula collaris, *Brehm, Vög. Deuts.* p. 376.

Merula alpestris, *Brehm, Vög. Deuts.* p. 377, t. xxi. f. 6.

Sylvia torquata, *Savi, Ornit. Tosc.* i. p. 206.

The Ring Ouzel, *Bew. Brit. B.* (1797), i. p. 92, fig.; *Penn. Brit. Zool.* (1812) i. p. 415, pl. 4, f. 1; *Selby, Brit. Orn.* i. p. 160; *Yarr. Brit. B.* 2 edit. i. p. 218, fig.

*a*. Cornwall. Female. From Col. Montagu's collection.
*b*, *c*. Turnham Green. From Mr. J. Baker's collection.

### 8. TURDUS MERULA. The Blackbird.

Turdus merula, *Linn. S. N.* i. p. 295; *Temm. Man. d'Orn.* 1815, p. 91; *Naum. Vög. Deuts.* (1822) ii. p. 326, t. 71; *Flem. Brit. An.* p. 65; *Eyton, Cat. Brit. B.* p. 8; *Macgill. Hist. Brit. B.* ii. p. 81; *Keys. & Bl. Wirbelth. Eur. p.* 51; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 41; *G. R. Gray, Gen. of B.* i. p. 218.

Merula vulgaris, *Pr. Bonap. Geogr. Comp. List of B.* p. 17.

Merula merula, *Boie, Isis* (1822), p. 552.

Merula nigra, *Leach, Syst. Cat. Mam. & B. B. M.* p. 20.

Merula pinetorum, *Brehm, Vög. Deuts.* p. 372.

Merula truncorum, *Brehm, Vög. Deuts.* p. 373.

Merula alticeps, *Brehm, Vög. Deuts.* p. 373.

Merula carinolica, *Brehm, Vög. Deuts.* p. 374.

Sylvia merula, *Savi. Orn. Tosc.* i. p. 205.

Merula vulgaris, *Selby.*

The Black Ouzel, *Bew. Brit. B.* (1797) i. p. 94, fig.

Blackbird, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812), i. p. 411; pl. 41; *Selby, Brit. Orn.* i. p. 158; *Yarr. Brit. B.* 2 edit. i. p. 211, fig.

*Gould, B. of Eur.* pl. 72.

*a*. England. Male.
*b*. Devonshire. Male. From Col. Montagu's collection.
*c*. Yorkshire. Female, variety. Presented by Mr. R. Leadbeater.
*d*. Devonshire. Female, variety. From Col. Montagu's collection.
*e*. Devonshire. Male, variety. Presented by W. Comyns, Esq.
*f*. Great Britain. Variety.
*g*. Great Britain. Variety.
*h*. Surrey. Very young.
*i*. Epping. Male. Presented by Henry Doubleday, Esq.
*j*. Cambridgeshire. Young. Presented by Mr. J. Baker.

## ii. *Oriolinæ*.

### 1. ORIOLUS.

Oriolus, *Linn. S. N.* (1766).
Turdus, *Mœhring, Syst. Av.* p. 33 (1752).
Galbula, *Scop.* (1777).
Mimetes, *King, Narr. Coasts of Austr.* ii. p. 418 (1827).
Mimeta, *Vig. & Horsf. Linn. Trans.* xv. p. 326 (1826).
Analcipus, *Swains. Fauna Bor. Amer.* ii. p. 482 (1831).
Artamia, *I. Geoff.* (1832).
Philocarpus, *Mull.* (1835).
Erythrolanius, *Less.* (1840).
Psaropholus, *Jard. & Selby, Ill. of Orn.* (1839).

#### a. Oriolus.

##### 1. Oriolus galbula. The Golden Oriole.

Oriolus galbula, *Linn. S. N.* i. p. 160; *Temm. Man. d'Orn.* 1815, p. 79; *Naum. Vög. Deuts.* (1822) ii. p. 171, t. 61; *Flem. Brit. An.* p. 66; *Brehm, Vög. Deuts.* p. 155; *Jenyns, Man. B. Vert. An.* p. 102; *Eyton, Cat. Brit. B.* p. 23; *Macgill. Hist. Brit. B.* ii. p. 71; *Pr. Bonap. Geogr. Comp. List of B.* p. 16; *Keys. & Bl. Wirlbeth. Eur.* p. 50; *Schleg. Rev. Crit. des. Ois. d'Eur.* p. 43; *G. R. Gray, Gen. of B.* i. p. 232.
Coracias oriolus, *Linn. Faun. Suec.* p. 33.
Coracias galbula, *Bechst. Naturg. Deuts.* ii. p. 1292.
Oriolus aureus, *Brehm, Vög. Deuts.* p. 156, t. xi. f. 4.
Oriolus garrulus, *Brehm, Vög. Deuts.* p. 157.

Golden Oriole, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 303, pl. xxxix.; *Selby, Brit. Orn.* i. p. 90; *Yarr. Brit. B.* 2 edit. i. p. 227, fig.

*Pl. enl.* 26, f. 1; *Gould, B. Eur.* pl. 71.

(Summer visitor).

### i. *Pycnonotinæ.*

### 1. PYCNONOTUS.

Pycnonotus, *Kuhl. Isis* (1826), p. 975.
Turdoïdes, *Temm. Pl. col.* (182 ?).
Brachypus, *Swains. Zool. Journ.* iii. p. 163 (1827).
Ixos, *Temm. Pl. col.* (182 ?).
Hæmatornis, *Swains. Fauna Bor. Amer.* ii. p. 485 (1831).
Alcurus, *Hodgs. Gray's Zool. Miscell.* p. 83 (1844).
Hemipus, *Hodgs. Gray's Zool. Miscell.* p. 83 (1844).
Ixidia, *Blyth*,

#### a. HÆMATORNIS.

1. Pycnonotus aurigaster. The Gold-vented Thrush.

Turdus aurigaster, *Vieill. N. Dict. d'Hist. Nat.* xx. p. 258; *Encyc. Meth.* p. 657.
Turdus chrysorrhæus, *Temm. Pl. col.*
Hæmatornis chrysorrhæus, *Swains. Fauna Bor. Amer.* p. 485.
Pycnonotus chrysorrhæus, *Thomp. Ann. Nat. Hist.* 1845, p. 308.
Pycnonotus aurigaster, *G. R. Gray, Gen. of B.* i. p. 237.
The Gold-vented Thrush, *Lath. Hist. of B.* v. p. 82; *Levaill. Ois. d'Afr.* t. 107, f. 2; *Yarr. Brit. Birds*, 2 edit. i. p. 224, fig.

(Mount Beresford, near Waterford).

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## Fam. III. MUSCICAPIDÆ.

### i. *Muscicapinæ.*

### 1. MUSCICAPA.

Muscicapa, *Linn. S. N.* (1766).
Ficedula, *Briss. Orn.* (1760).
Butalis, *Boie, Isis* (1826), p. 973 (1826).

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## a. Muscicapa.

### 1. Muscicapa atricapilla. The Pied Flycatcher.

Muscicapa atricapilla, *Linn. S. N.* i. p. 326; *Leach, Syst. Cat. Mam. & B. B. M.* p. 19; *Flem. Brit. An.* p. 63; *Brehm, Vög. Deuts.* p. 224; *Eyton, Cat. Brit. B.* p. 8; *Macgill. Hist. Brit. B.* iii. p. 524; *Pr. Bonap. Geogr. Comp. List of B.* 25; *Keys. & Bl. Wirbelth. Eur.* p. 61; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 22; *G. R. Gray, Gen. of B.* i. p. 262.

Muscicapa luctuosa, *Temm. Man. d'Orn.* (1815) i. p. 101; *Naum. Vög. Deuts.* (1822) ii. p. 231, t. 64, f. 2, 3, 4; *Brehm, Vög. Deuts.* p. 225; *Jenyns, Man. B. Vert. An.* p. 97.

Emberiza luctuosa, *Scop. Ann.* i. No. 215.

Motacilla ficedula, *Linn. S. N.* i. p. 330.

Muscicapa streptophora, *Vieill. Faun. Franc.* p. 145, t. 63, f. 2, 3.

Sylvia ficedula, *Lath. Ind. Orn.* ii. p. 517.

Muscicapa muscipeta, *Bechst. Naturl. Deuts.* iii. p. 435; *Brehm, Vög. Deuts.* p. 226.

Muscicapa alticeps, *Brehm, Vög. Deuts.* p. 225.

Muscicapa fuscicapilla, *Brehm, Vög. Deuts.* p. 226.

Muscicapa atrogrisea, *Brehm, Vög. Deuts.* p. 227.

The Pied Flycatcher, *Bew. Brit. B.* (1797) i. p. 195, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 473; *Selby, Brit. Orn.* i. p. 148; *Yarr. Brit. B.* 2 edit. i. p. 177, fig.

*Pl. enl.* 668, f. 1; *Gould, B. of Eur.* pl. 63, f. 1.

*a.* Yorkshire. Male. From Col. Montagu's collection.

## b. Butalis.

### 2. Muscicapa grisola. The Spotted Flycatcher.

Muscicapa grisola, *Linn. S. N.* i. p. 328; *Temm. Man. d'Orn.* 1815, p. 99; *Leach, Syst. Cat. Mam. & B. B. M.* p. 19; *Naum. Vög. Deuts.* (1822) ii. p. 216, t. 64, f. 1; *Flem. Brit. An.* p. 63; *Jenyns, Man. B. Vert. An.* p. 97; *Eyton, Cat. Brit. B.* p. 8; *Macgill. Hist. Brit. B.* iii. p. 518; *Keys. & Bl. Wirbelth. Eur.* p. 60; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 22; *G. R. Gray, Gen. of B.* i. p. 262.

Motacilla ficedula, *Linn. Faun. Suec.* p. 90.

Butalis grisola, *Boie, Isis* (1826), p. 973; *Brehm, Vög. Deuts.* p. 222; *Pr. Bonap. Geogr. Comp. List of B.* p. 25.

Butalis montana, *Brehm, Vög. Deuts.* p. 220, t. xv. f. 4.

Butalis pinetorum, *Brehm, Vög. Deuts.* p. 221.
Spotted Flycatcher, *Bew. Brit. B.* (1797), i. p. 196; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812), i. p. 471; *Selby, Brit. Orn.* i. p. 146; *Yarr. Brit. B.* 2 edit. i. p. 172, fig.

*Pl. enl.* 565, f. 1; *Gould, B. of Eur.* pl. 65.

*a*. Wiltshire. Male. From Col. Montagu's collection.
*b*, *c*. Cambridgeshire. Very young. Presented by Mr. J. Baker.
*d*. Cambridgeshire. Male. From Mr. J. Baker's collection.
*e*. Cambridgeshire. Female. From Mr. J. Baker's collection.
*f*. Cambridgeshire. Young. From Mr. J. Baker's collection.
*g*. Sternum. England. Presented by John Ray, Esq.
*h*. Skull. England. Presented by John Ray, Esq.

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## Fam. IV. AMPELIDÆ.

### i. *Ampelinæ*.

#### 1. AMPELIS.

Ampelis, *Linn. S. N.* (1735).
Bombycilla, *Vieill. Ois. le d'Amér. Sept.* (1807).
Bombycivora, *Temm. Man. d'Orn.* (1815) p. 76.
Bombyciphora, *Meyer, Vög. Liv. u. Esthl.* p. (1815).
Corvus (pars), *Ill. Prod.* (1811).

##### 1. Ampelis garrulus. The Bohemian Waxwing.

Lanius garrulus, *Linn. Faun. Suec.* No. 82.
Ampelis garrulus, *Linn. S. N.* i. p. 297; *G. R. Gray, Gen. of B.* i. p. 278.
Bombycilla bohemica (Briss.), *Leach, Syst. Cat. Mam. & B. B. M.* p. 18; *Brehm, Vög. Deuts.* p. 219; *Eyton, Cat. Brit. B.* p. 8.
Bombyciphora poliocœlia, *Meyer, Vög. Liv. u. Esthl.* p. 104.
Bombycivora garrula, *Temm. Man. d'Orn.* (1815) p. 77; *Naum. Vög. Deuts.* (1822) ii. p. 143, t. 59.
Parus bombycilla, *Pall. Zoogr.* i. p. 548.
Bombycilla garrula, *Flem. Brit. An.* p. 64; *Brehm, Vög. Deuts.* p. 218, t. xv. f. 3; *Jenyns, Man. B. Vert. An.* p. 125; *Macgill. Hist. Brit. B.* iii. p. 531; *Pr. Bonap. Geogr. Comp. List of B.* p. 8; *Keys. & Bl. Wirbelth. Eur.* p. 44; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 57.

The Chatterer, *Bew. Brit. B.* (1797) i. p. 83, fig.
Bohemian Chatterer, *Mont. Orn. Dict.*
Waxen Chatterer, *Penn. Brit. Zool.* (1812) i. p. 418, pl. liv.
Bohemian Waxwing, *Selby, Brit. Orn.* i. p. 87; *Yarr. Brit. B.* 2 edit. i. p. 388, fig.

*Pl. enl.* 261; *Gould, B. of Eur.* pl. 160.

*a*, *b*. Norfolk. From Mr. J. Baker's collection.

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## Fam. V. LANIDÆ.

### i. *Laninæ*.

### 1. LANIUS.

Lanius, *Linn. S. N.* (1756).
Falco (pars), *Linn. S. N.* (1735).
Ampelis (pars), *Linn. S. N.* (1748).
Collyrio, *Mœhring. Syst. Av.* p. 28 (1752).
Corvinella, *Less. Tr. d'Orn.* p. 371 (1831).
Basanistes, *Licht.* (1842).

#### a. Lanius.

1. Lanius excubitor. The Great Grey Shrike.

Lanius excubitor, *Linn. S. N.* i. p. 135; *Temm. Man. d'Orn.* 1815, p. 59; *Naum. Vög. Deuts.* (1822) ii. p. 7, t. 49; *Flem. Brit. An.* p. 62; *Brehm, Vög. Deuts.* p. 232, t. xv. f. 6; *Jenyn's Man. B. Vert. An.* p. 95; *Eyton, Cat. Brit. B.* p. 7; *Macgill. Hist. Brit. B.* iii. p. 492; *Pr. Bonap. Geogr. Comp. List of B.* p. 26; *Keys. & Bl. Wirbelth. Eur.* p. 60; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 20; *G. R. Gray, Gen. of B.* i. p. 290.
Lanius cinereus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 19.
Lanius major, *Brehm, Vög. Deuts.* p. 232.
Great Ash-coloured Shrike, *Bew. Brit. B.* (1797) i. p. 58, fig.
Cinereous Shrike, *Mont. Orn. Dict.*
Great Shrike, *Penn. Brit. Zool.* (1813) i. p. 272, pl. xxxv.
Great Cinereous Shrike, *Selby, Brit. Orn.* i. p. 140.
Great Grey Shrike, *Yarr. Brit. B.* 2 edit. i. p. 156, fig.

*Pl. enl.* 445; *Gould, B. of Eur.* pl. 66.

*a*. Wiltshire. Male. From Col. Montagu's collection.
*b*. Great Britain. Young.

### 2. ? Lanius excubitorides.

Lanius borealis, *Vieill. Ois. d'Amér. Sept.* t. 50? *Faun. Franc.* p. 151, t. 65, f. 1? *Smith, Newm. Zoologist*, 1849, p. 2495.
Lanius excubitorides, *Swains. Faun. Bor. Amer.* ii. p. 115? *Tomes, Newm. Zoologist*, 1850, p. 2734.
Lanius ludovicianus (*Linn.*) *Aud. Synop. of B. of Amer.* p. 158?
(Aberdeen and Warwickshire).

## 2. ENNEOCTONUS.

Enneoctonus, *Boie, Isis* (1826), p. 973.
Phoneus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 33 (1829).
Collurio, *Kaup, Naturl. Syst. der Eur. Thier.* p. 40 (1829).

### 1. Enneoctonus collurio. The Red-backed Shrike.

Lanius collurio, *Linn. S. N.* i. p. 136; *Temm. Man. d'Orn.* 1815, p. 62; *Naum. Vög. Deuts.* (1822) ii. p. 30, t. 52; *Flem. Brit. An.* p. 62; *Brehm, Vög. Deuts.* p. 234; *Jenyns, Man. B. Vert. An.* p. 96; *Eyton, Cat. Brit. B.* p. 7; *Macgill. Hist. Brit. B.* iii. p. 505; *Keys. & Bl. Wirbelth. Eur.* p. 60; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 21.
Lanius spinitorquus, *Bechst. Naturg. Deuts.* ii. p. 1335; *Brehm, Vög. Deuts.* p. 233.
Lanius dumetorum, *Brehm, Vög. Deuts.* p. 234.
Enneoctonus collurio, *Boie, Isis* (1826), p. 973? *Pr. Bonap. Geogr. Comp. List of B.* p. 26; *G. R. Gray, Gen. of B.* i. p. 291.
Collurio ———, *Kaup, Naturl. Syst.* p. 40.
The Red-backed Shrike, *Bew. Brit. B.* (1797) i. p. 60, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 275; *Selby, Brit. Orn.* i. p. 142; *Yarr. Brit. B.* 2 edit. i. p. 161, fig.
Woodchat, *Bew.* (1826) i. p. 75.

*Pl. enl.* 31, f. 1, 2; *Gould, B. of Eur.* pl. 69.

*a*. Wiltshire. Male. From Col. Montagu's collection.
*b*. Devonshire. Female, young. From Col. Montagu's collection.
*c*. Cambridgeshire. Male, young. From Mr. J. Baker's collection.
*d*. Cambridgeshire. Female, young. From Mr. J. Baker's collection.
*e*. Sternum. England. Presented by T. Ingall, Esq.
*f*. Sternum. England. Presented by John Ray, Esq.

2. ENNEOCTONUS RUFUS. The Woodchat Shrike.

Lanius rutilus, *Lath. Ind. Orn.* i. p. 70; *Wood, Analyst*, 1835, p. 30.
Lanius pomeranus, *Sparrm. Mus. Carsl.* t. 1.
Lanius ruficeps, *Bechst. Naturg. Deuts.* ii. p 1327; *Brehm, Vög. Deuts.* p. 237.
Lanius ruficollis, *Shaw, Gen. Zool.* vii. p. 316.
Lanius melanotis, *Brehm, Vög. Deuts.* p. 238.
Phoneus rufus, *Kaup, Naturl. Syst.* p. 33.
Enneoctonus rufus, *Pr. Bonap. Geogr. Comp. List of B.* p. 26; *G. R. Gray, Gen. of B.* i. p. 291.
Lanius rufus (*Briss.*) *Temm. Man. d'Orn.* 1815, p. 61; *Leach, Syst. Cat. Mam. & B. B. M.* p. 20; *Naum. Vög. Deuts.* (1822) ii. p. 22, t. 51; *Flem. Brit. An.* p. 63; *Brehm, Vög. Deuts.* p. 237; *Jenyns, Man. B. Vert. An.* p. 96; *Keys. & Bl. Wirbelth. Eur.* p. 60; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 21; *Eyton, Cat. Brit. B.* p. 66.
The Woodchat, *Bew. Brit. B.* (1797) i. p. 61; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 277; *Selby, Brit. Orn.* i. p. 145 (note).
The Woodchat Shrike, *Yarr. Brit. B.* 2 edit. i. p. 167, fig.
Wood Shrike, *Mont. Orn. Dict. Suppl.*

*Pl. enl.* 9, f. 1, 2; *Gould, B. of Eur.* pl. 70.

*a.* Kent. Male.

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## *Tribe IV. CONIROSTRES.*

Picæ, pt.—Passeres, pt., *Linn.* (1735); *Mahr.* (1752); *Lath.* (1790).
Plumipedes, pt., *Schæff.* (1774).
Fissipedes anisodactyles, conico-tenuirostres—F. a. conico-protensirostres—F. a. conico-convexirostres, pt.—F. a. conico-subulirostres, pt., *Schæff.* (1774).
Anomalipedes, pt., *Schæff.* (1774).
Scutipedes, pt.—Negliges, pt.—Chanteurs, pt., *Scop.* (1777).
Conirostres — Crenirostres, pt. — Dentirostres, pt. — Plenirostres, pt.—Subulirostres, pt.—Lævirostres, pt.—Scansores, pt., *Cuv.* (1799—1800).
Serrati, pt. — Gregarii, pt.—Passerini, pt. — Dentirostres, pt. — Coraces, pt.—Gallinacei, pt., *Illiger* (1811).

Coraces—Passerini, pt.. *Temm.* (1815).
Frugivori — Granivori — Pericalles, pt. — Textores — Leimonites—Carunculata—Paradisei — Coraces — Baccivori, pt.—Colluriones, pt.—Canori, pt.—Anerpontes, pt.—Prioniti, pt.—Ophiophagæ, *Vieill.* (1816).
Conirostres—Dentirostres, pt.—Tenuirostres, pt.—Syndactyli, pt.—Scansores, pt., *Cuv.* (1817).
Dysodes, *Vieill.* (1818).
Omnivores, pt.—Granivores—Zygodactyli, pt.—Insectivores, pt., *Temm.* (1820).
Razzolanti, pt.—Alettimorfi—Ifalti, pt.—Plereoramfi—Metrioramfi—Conoramfi, *Ranz.* (1823).
Conirostres—Dentirostres, pt.—Scansores, pt., *Vigors* (1826).
Vagatrices—Cantatrices, pt.—Deglubitrices, *Macgill.* (1840).
Oscines, pt., *Keys. & Bl.* (1840).
Clamatores, pt.—Oscines, pt.—Amphibolæ, *Cabanis* (1847).

## Fam. I. CORVIDÆ.

### i. *Garrulinæ.*

### 1. GARRULUS.

Garrulus, *Briss. Orn.* ii. p. 46 (1760).
Glandarius, *Koch, Baier. Zool.* i. p.

#### 1. Garrulus glandarius. The Jay.

Corvus glandarius, *Linn. S. N.* i. p. 157; *Temm. Man. d'Orn.* 1815, p. 75; *Naum. Vög Deuts.* (1822) ii. p. 122, t. 58, f. 1.
Lanius glandarius, *Nils. Orn. Suec.* i. p. 75.
Glandarius pictus, *Koch, Baier. Zool.* i. p. 99.
Garrulus glandarius, *Leach, Syst. Cat. Mam. & B. B. M.* p. 18; *Flem. Brit. An.* p. 86; *Jenyns, Man. B. Vert. An.* p. 148; *Eyton, Cat. Brit. B.* p. 25; *Keys. & Bl. Wirbelth. Eur.* p. 45; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 55; *Pr. Bonap. Geogr. Comp. List of B.* p. 27; *G. R. Gray. Gen. of B.* ii. p. 306.
Glandarius germanicus, *Brehm, Vög. Deuts.* p. 180.
Glandarius septentrionalis, *Brehm, Vög. Deuts.* p. 180, t. xiii. f. 1.
The Jay, *Bew. Brit. B.* (1797) i. p. 80, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 291; *Selby, Brit. Orn.* i. p. 79; *Yarr. Brit. B.* 2 edit. ii. p. 119, fig.

*Pl. enl.* 481; *Gould, B. of Eur.* pl. 231.

*a*. Devonshire. Male.
*b*. Great Britain.
*c*. Great Britain. Variety albino. From Mr. Bullock's collection.
*d*, *e*. Oakley Eye, Suffolk. Presented by the Rev. H. Kirby.
*f*. Saffron Walden. From Mr. J. Clark's collection.
*g*. Skull. England.
*h*. Sternum. England. Presented by John Ray, Esq.
*i*. Skull. England. Presented by John Ray, Esq.

## ii. *Corvinæ*.

### 1. NUCIFRAGA.

Nucifraga, *Briss. Orn.* ii. p. 58 (1760).
Caryocatactes, *Cuv. Reg. An.* (1817), i. p. 399.

#### 1. Nucifraga caryocatactes. The Nutcracker.

Corvus caryocatactes, *Linn. S. N.* i. p. 157; *Temm. Man. d'Orn.* 1815, p. 74; *Naum. Vög. Deuts.* (1822) ii. p. 130, t. 58, f. 2.
Caryocatactes maculatus, *Koch, Baier. Zool.* i. p. 93.
Caryocatactes nucifraga, *Nils. Orn. Suec.* i. p. 90; *Flem. Brit. An.* p. 88.
Nucifraga caryocatactes, *Leach, Syst. Cat. Mam. & B. B. M.* p. 18; *Jenyns, Man. B. Vert. An.* p. 149; *Eyton, Cat. Brit. B.* p. 25; *Macgill. Hist. Brit. B.* i. p. 583; *Keys. & Bl. Wirbelth. Eur.* p. 45; *Pr. Bonap. Geogr. Comp. List of B.* p. 28; *Fisher, Newm. Zool.* 1845, p. 824, and 1073, fig.
Nucifraga guttata, *Vieill. N. Dict. d'Hist. Nat.* v. p. 354.
Nucifraga brachyrhyncha, *Brehm, Vög. Deuts.* p. 181, t. xiii. f. 2? *Zool.* 1845, p. 1073, fig. *c*?
Nucifraga macrorhyncha, *Brehm, Vög. Deuts.* p. 182.
Caryocatactes caryocatactes (*Cuv.*), *Schleg. Rev. Crit. des Ois. d'Eur.* p. 55.
The Nutcracker, *Bew. Brit. B.* (1797) i. p. 79, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 298, pl. xxxvii.; *Selby, Brit. Orn.* i. p. 84; *Yarr. Brit. B.* 2 edit. ii. p. 125, fig.
*Gould, B. of Eur.* pl. 213.

*a*. Kent. Presented by Wm. George, Esq.

## 2. PICA.

Pica, *Briss. Orn.* ii. p. 35 (1760).

### 1. Pica caudata. The Magpie.

Corvus pica, *Linn. S. N.* i. p. 157; *Temm. Man. d'Orn.* 1815, p. 73; *Naum. Vög. Deuts.* (1822) ii. p. 101, t. 56; f. 2.
Pica melanoleuca, *Vieill. N. Dict. d'Hist. Nat.* xxvi. p. 121; *Macgill. Hist. Brit. B.* i. p. 559.
Pica albiventris, *Vieill. Faun. Franc.* p. 119, t. 55, f. 1.
Pica europæa, (*Cuv.*), *Boie, Isis* (1822), p. 551.
Pica rusticorum, *Leach, Syst. Cat. Mam. & B. B. M.* p. 18.
Pica caudata, *Flem. Brit. An.* p. 87; *Eyton, Cat. Brit. B.* p. 25; *Pr. Bonap. Geogr. Comp. List of B.* p. 27; *Keys. & Bl. Wirbelth. Eur.* p. 45; *G. R. Gray, Gen. of B.* ii. p. 314.
Corvus (Pica) pica, *Jenyns, Man. B. Vert. An.* p. 147.
Pica germanica, *Brehm, Vög. Deuts.* p. 177.
Pica septentrionalis, *Brehm, Vög. Deuts.* p. 178.
Pica hiemalis, *Brehm, Vög. Deuts.* p. 178, t. xii. f. 4.
Pica varia, *Schleg. Rev. Crit. des Ois. d'Eur.* p. 54.
The Magpie, *Bew. Brit. B.* (1797) i. p. 75, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 289; *Selby, Brit. Orn.* i. p. 76; *Yarr. Brit. B.* 2 edit. ii. p. 109, fig.

*Pl. enl.* 488; *Gould, B. of Eur.* pl. 216.

*a.* Devonshire. Male. From Col. Montagu's collection.
*b.* Cambridgeshire. Young. Presented by Mr. J. Baker.
*c.* Sternum. England. Presented by T. Ingull, Esq.

## 3. CORVUS.

Corvus, *Linn. S. N.* (1735).
Lycos, *Boie, Isis* (1828), p. 358.
Monedula, *Brehm, Isis* (1828), p. 1273.
Corone, *Kaup, Naturl. Syst. der Eur. Thier.* p. 99 (1829).
Coloeus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 114 (1829).
Corvultur, *Less. Tr. d'Ornith.* p. 327 (1831).
Frugilegus, *Less.*

## a. Corvus.

### 1. Corvus corax. The Raven.

Corvus corax, *Linn. S. N.* i. p. 155; *Temm. Man. d'Orn.* 1815, p. 66; *Leach, Syst. Cat. Mam. & B. B. M.* p. 18; *Naum. Vög. Deuts.* (1822), ii. p. 43, t. 53, f. 1; *Flem. Brit. An.* p. 87; *Jenyns, Man. B. Vert. An.* p. 145; *Eyton, Cat. Brit. B.* p. 24; *Macgill. Hist. Brit. B.* i. p. 498; *Pr. Bonap. Geogr. Comp. List of B.* p. 28; *Keys. & Bl. Wirbelth. Eur.* p. 46; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 53; *G. R. Gray, Gen. of B.* ii. p. 315.
Corvus sylvestris, *Brehm, Vög. Deuts.* p. 163.
Corvus littoralis, *Brehm, Vög. Deuts.* p. 164.
Corvus peregrinus, *Brehm, Vög. Deuts.* p. 164.
Corvus montanus, *Brehm, Vög. Deuts.* p. 165.
Corvus maximus, *Scop.*
Corvus clericus, *Sparrm. Mus. Carls.* t. 2.
Corvus leucophæas, *Vieill. Gal. des Ois.* t. 100.
The Raven, *Bew. Brit. B.* (1797) i. p. 66, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 279; *Selby, Brit. Orn.* i. p. 67; *Yarr. Brit. B.* 2 edit. ii. p. 61, fig.

*Pl. enl.* 495; *Gould, B. of Eur.* pl. 220.

*a.* Cambridgeshire. From Mr. J. Baker's collection.
*b.* Sternum. England. Presented by John Ray, Esq.

## b. Lycos.

### 2. Corvus frugilegus. The Rook.

Corvus frugilegus, *Linn. S. N.* i. p. 156; *Temm. Man. d'Orn.* 1815, p. 68; *Leach, Syst. Cat. Mam. & B. B. M.* p. 18; *Naum. Vög. Deuts.* (1822) ii. p. 78, t. 55; *Flem. Brit. An.* p. 88; *Brehm, Vög. Deuts.* p. 170; *Jenyns, Man. B. Vert. An.* p. 146; *Eyton, Cat. Brit. B.* p. 24; *Macgill. Hist. Brit. B.* i. p. 535; *Pr. Bonap. Geogr. Comp. List of B.* p. 27; *Keys. & Bl. Wirbelth. Eur.* p. 46; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 54; *G. R. Gray, Gen. of B.* ii. p. 315.
Corvus corone, *Linn. Faun. Suec.* p. 29.
Corvus agrorum, *Brehm, Vög. Deuts.* p. 170.
Corvus granorum, *Brehm, Vög. Deuts.* p. 171.
Corvus advena, *Brehm, Vög. Deuts.* p. 171, t. xii. f. 1.
Coloeus frugilegus, *Kaup, Naturl. Syst.* p. 114.

The Rook, *Bew. Brit. B.* (1797) i. p. 71, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 283; *Selby, Brit. Orn.* i. p. 72; *Yarr. Brit. B.* 2 edit. ii. p. 91, fig.

*Pl. enl.* 484; *Gould, B. of Eur.* pl. 224.

*a.* London.
*b.* Devonshire. Variety. From Col. Montagu's collection.
*c, d.* Cambridgeshire. Presented by Mr. J. Baker.
*e.* Samborne Park, Hants. Variety. Presented by Maj.-Gen. Wavell.
*f.* Sternum. England. Presented by T. Ingall, Esq.

### 3. Corvus monedula. The Jackdaw.

Corvus monedula, *Linn. S. N.* i. p. 156; *Temm. Man. d'Orn.* 1815, p. 70; *Leach, Syst. Cat. Mam. & B. B. M.* p. 18; *Naum. Vög. Deuts.* (1822) ii. p. 93, t. 56, f. 1; *Flem. Brit. An.* p. 88; *Jenyns, Man. B. Vert. An.* p. 147; *Eyton, Cat. Brit. B.* p. 24; *Macgill. Hist. Brit. B.* i. p. 552; *Pr. Bonap. Geogr. Comp. List of B.* p. 27; *Keys. & Bl. Wirbelth. Eur.* p. 45; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 54; *G. R. Gray, Gen. of B.* ii. p. 315.
Monedula turricum, *Brehm, Vög. Deuts.* p. 172.
Monedula arborea, *Brehm, Vög. Deuts.* p. 173, t. xii. f. 2.
Monedula septentrionalis, *Brehm, Vög. Deuts.* p. 173.
Coloeus monedula, *Kaup, Naturl. Syst.* p. 114.
Lycos monedula, *Boie.*
The Jackdaw, *Bew. Brit. B.* (1797) i. p. 73, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 296, pl. xxxv. upp. fig.; *Selby, Brit. Orn.* i. p. 75; *Yarr. Brit. B.* 2 edit. ii. p. 103, fig.

*Pl. enl.* 523; *Gould, B. of Eur.* pl. 223.

*a.* Wiltshire. Male. From Col. Montagu's collection.
*b.* Yorkshire. Variety.
*c.* Saffron Walden. From Mr. J. Clark's collection.
*d, e.* Cambridgeshire. Chicks. From Mr. J. Baker's collection.
*f.* Skull. England. Presented by John Ray, Esq.

## c. Corone.

### 4. Corvus corone. The Carrion Crow.

Corvus corone, *Linn. S. N.* i. p. 155; *Temm. Man. d'Orn.* 1815, p. 67; *Naum. Vög. Deuts.* (1822) ii. p. 54, t. 53, f. 2; *Flem. Brit.*

*An.* p. 87; *Brehm, Vög. Deuts.* p. 166; *Jenyns, Man. B. Vert. An.* p. 145; *Eyton, Cat. Brit. B.* p. 24; *Macgill. Hist. Brit. B.* i. p. 516; *Pr. Bonap. Geogr. Comp. List of B.* p. 28; *Keys. & Bl. Wirbelth. Eur.* p. 46; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 53; *G. R. Gray, Gen. of B.* ii. p. 315.

Corvus cornix, *Leach, Syst. Cat. Mam. & B. B. M.* p. 18.

Corvus subcorone, *Brehm, Vög. Deuts.* p. 167.

Corvus hiemalis, *Brehm, Vög. Deuts.* p. 167.

Corone ———, *Kaup, Naturl. Syst.* p. 99.

The Carrion Crow, *Bew. Brit. B.* (1797) i. p. 68; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 281, pl. xxxv. f. lower; *Selby, Brit. Orn.* i. p. 69; *Yarr. Brit. B.* 2 edit. ii. p. 78, fig.

*Pl. enl.* 483; *Gould, B. of Eur.* pl. 221.

*a.* Variety (albino). From Mr. Bullock's collection.
*b.* Cambridgeshire. From Mr. J. Baker's collection.
*c.* Sternum. England. Presented by John Ray, Esq.

### 5. Corvus cornix. The Hooded Crow.

Corvus cornix, *Linn. S. N.* i. p. 156; *Temm. Man. d'Orn.* 1815, p. 67; *Naum. Vög. Deuts.* (1822) ii. p. 65, t. 54, f. 1; *Flem. Brit. An.* p. 87; *Brehm, Vög. Deuts.* p. 168; *Jenyns, Man. B. Vert. An.* p. 146; *Eyton, Cat. Brit. B.* p. 24; *Macgill. Hist. Brit. B.* i. p. 529; *Pr. Bonap. Geogr. Comp. List of B.* p. 28; *Keys. & Bl. Wirbelth. Eur.* p. 46; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 54; *G. R. Gray, Gen. of B.* ii. p. 315.

Corvus cinereus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 18; *Brehm, Vög. Deuts.* p. 169.

Corvus subcornix, *Brehm, Vög. Deuts.* p. 168.

Corone cornix, *Kaup, Naturl. Syst.* p. 99.

The Hooded Crow, *Bew. Brit. B.* (1797) i. p. 69, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 286; *Selby, Brit. Orn.* i. p. 71; *Yarr. Brit. B.* 2 edit. ii. p. 82.

*Pl. enl.* 79; *Gould, B. of Eur.* pl. 222.

*β.* Wiltshire. Male. From Col. Montagu's collection.
*c.* Great Britain. Young, variety.
*d.* Great Britain. Young.
*e.* Cambridgeshire. Presented by Mr. J. Baker.
*f.* Cambridgeshire. Female. From Mr. J. Baker's collection.
*g.* Sternum. England. Presented by John Ray, Esq.

## iii. *Pyrrhocoracinæ.*

### 1. CORACIA.

Coracia, *Briss. Orn.* ii. p. 3 (1760).
Graculus, *Koch, Baier. Zool.* i. p. 91 (1816).
Fregilus, *Cuv. Règ. An.* (1817) i. p. 406.

#### 1. Coracia gracula. The Chough.

Corvus graculus, *Linn. S. N.* i. p. 158; *Temm. Man. d'Orn.* 1815, p. 72; *Naum. Vög. Deuts.* (1822) ii. p. 114, t. 57, f. 2.
Coracia erythroramphos, *Vieill. N. Dict. d'Hist. Nat.* viii. p. 2.
Pyrrhocorax graculus, *Temm. Man. d'Orn.* (1820) i. p. 122; *Brehm, Vög. Deuts.* p. 174, t. xii. f. 3; *Flem. Brit. An.* p. 89.
Fregilus graculus, *Cuv. Règ. An.* (1817) i. p. 406; *Jenyns, Man. B. Vert. An.* p. 144; *Eyton, Cat. Brit. B.* p. 23; *Macgill. Hist. Brit. B.* i. p. 585; *Pr. Bonap. Geogr. Comp. List of B.* p. 28; *Keys. & Bl. Wirbelth. Eur.* p. 46; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 56.
Fregilus europæus, *Less. Tr. d'Orn.* p. 324.
Fregilus erythropus, *Swains. Classif. of B.* ii. p. 268.
Pyrrhocorax rupestris, *Brehm, Vög. Deuts.* p. 175.
Coracia gracula, *G. R. Gray, Gen. of B.* ii. p. 321.
Corvus docilis, *Gmel. S. N.* i. p. 385.
Corvus eremita, *Gmel. S. N.* i. p. 375.
Graculus eremita, *Koch, Baier. Zool.* i. p. 91.
Corvus coracias, *Lapeir.*
The Red-legged Crow, *Bew. Brit. B.* (1797) i. p. 77; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 294, pl. xxxvi.
The Cornish Chough, *Selby, Brit. Orn.* i. p. 81.
The Chough, *Yarr. Brit. B.* 2 edit. ii. p. 55, fig.
*Pl. enl.* 255; *Gould, B. of Eur.* pl. 219.

*a*. Great Britain. From Col. Montagu's collection.
*b*, *c*. Cornwall. Presented by D. W. Mitchell, Esq.

# FAM. II. STURNIDÆ.

## i. *GRACULINÆ*.

### 1. GRACULA.

Gracula, *Linn. S. N.* (1756).
Eulabes, *Cuv. Règ. Anim.* (1817) i. p. 401.
Mainates, *Less. Tr. d'Orn.* p. 356 (1831).
Maina, *Hodgs.* (1836).
Mino, *Less. Voy. de la Coqu. Zool.* (1828).
Gymnops, *Cuv. Règ. Anim.* (1829) i. p. 381 (1829).
Ampeliceps, *Blyth, Journ. A. S. B.* (1842) p. 194.

#### a. GRACULA.

##### 1. GRACULA RELIGIOSA. The Minor Grakle.

Gracula religiosa, *Linn. S. N.* p. 164; *Cater, Zoologist*, 1849, p. 2391.

*Pl. enl.* 268.

(Coast of Norfolk).

## ii. *STURNINÆ*.

### 1. PASTOR.

Pastor, *Temm. Man. d'Orn.* (1815) p. 82.
Psaroïdes, *Vieill. Analyse*, p. 42 (1816).
Thremmaphilus, *Macgill. Hist. Brit. B.* i. p. 160 (1837).
Boscis, *Brehm, Isis* (1828), p. 1282.
Nomadites, *Peteniz* (183?).
Merula, *Naum. Vög. Deuts.* (1822) ii. p. 206.

##### 1. PASTOR ROSEUS. The Rose-coloured Pastor.

Turdus roseus, *Linn. S. N.* i. p. 294.
Sturnus roseus, *Scop. Ann.* i. No. 191.
Turdus seleucis, *Gmel. S. N.* i. p. 837.
Pastor roseus, *Temm. Man. d'Orn.* 1815, p. 83; *Flem. Brit. An.* p. 66; *Jenyns, Man. B. Vert. An.* p. 144; *Eyton, Cat. Brit. B.* p. 23; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 58; *G. R. Gray, Gen. of B.* ii. p. 334.

Merula rosea (Briss), *Naum. Vög. Deuts.* (1822) ii. p. 206, t. 63; *Keys. & Bl. Wirbelth. Eur.* p. 47.
Boscis rosea, *Brehm, Vög. Deuts.* p. 401, t. xxii. f. 4.
Thremmaphilus roseus, *Macgill. Hist. Brit. B.* iii. p. 613.
Acridotheres roseus, *Ranz. Elem. Zool.* iii. t. 17, f. 4; *Pr. Bonap. Geogr. Comp. List of B.* p. 28.
The Rose-coloured Ouzel, *Bew. Brit. B.* (1797) i. p. 91; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 413, pl. liii.
Rose-coloured Pastor, *Selby, Brit. Orn.* i. p. 94; *Yarr. Brit. B.* 2 edit. ii. p. 48, fig.
*Gould, B. of Eur.* pl. 212.
*a*. Devonshire.

## 2. STURNUS.

Sturnus, *Linn. S. N.* (1735).

### 1. Sturnus vulgaris. The Common Starling.

Sturnus vulgaris, *Linn. S. N.* i. p. 290; *Temm. Man. d'Orn.* 1815, p. 81; *Leach, Syst. Cat. Mam. & B. B. M.* p. 17; *Naum. Vög. Deuts.* (1822) ii. p. 187, t. 62; *Flem. Brit. An.* p. 86; *Jenyns, Man. B. Vert. An.* p. 143; *Eyton, Cat. Brit. B.* p. 23; *Pr. Bonap. Geogr. Comp. List of B.* p. 28; *Keys. & Bl. Wirbelth. Eur.* p. 46; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 57; *G. R. Gray, Gen. of B.* ii. p. 337.
Sturnus varius, *Wolf u. Mey. Taschenb.* i. p. 208.
Sturnus guttatus, *Macgill. Hist. Brit. B.* i. p. 595.
Turdus solitarius, *Gmel. S. N.* i. p. 834.
Sturnus solitarius, *Leach, Syst. Cat. Mam. & B. B. M.* p. 18.
Sturnus domesticus, *Brehm, Vög. Deuts.* p. 398.
Sturnus sylvestris, *Brehm, Vög. Deuts.* p. 398, t. xxii. f. 3.
Sturnus nitens, *Brehm, Vög. Deuts.* p. 399.
Sturnus septentrionalis, *Brehm, Vög. Deuts.* p. 400.
The Starling, *Bew. Brit. B.* (1797) i. p. 88, fig.
Stare or Starling, *Mont. Orn. Dict.*
Solitary Thrush, *Mont. Orn. Dict. Suppl.* pl.
Common Stare, *Penn. Brit. Zool.* (1812) i. p. 396, pl. 4. low. fig.
Common Starling, *Selby, Brit. Orn.* i. p. 92; *Yarr. Brit. B.* 2 edit. ii. p. 40, fig.
*Pl. enl.* 75; *Gould, B. of Eur.* pl. 210.

*a*. Saffron Walden. Adult. From Mr. J. Clark's collection.
*b*. England. Presented by A. Cooper, Esq., R.A.

*c*. Somersetshire. Variety.
*d*. Wiltshire. Variety. From Col. Montagu's collection.
*e*, *f*. Cambridgeshire. Young. Presented by Mr. J. Baker.
*g*, *h*. Cambridgeshire. Young. From Mr. J. Baker's collection.
*i*. Sternum. England. Presented by T. Ingall, Esq.

### iii. *AGELAINÆ*.

#### 1. AGELAIUS.

Agelaius, *Vieill. Analyse, &c.*, p. 33 (1816).

1. AGELAIUS PHŒNICEUS. The Red-winged Starling.

Oriolus phœniceus, *Linn. S. N.* i. p. 161.
Sturnus predatorius, *Wils. Amer. Orn.* pl. 30, f. 1, 2; *Lubb. Fauna of Norf.* p. 36.
Agelaius phœniceus, *Vieill. N. Dict. d'Hist. Nat.* 34, p. 539; *G. R. Gray, Gen. of B.* ii. p. 347.
Icterus phœniceus, *Pr. Bonap. Syn. of Amer. B.* p. 52.
The Red-winged Starling, *Bew. Brit. B.* (1797) ii. p. 35, fig.; *Lubb. Fauna of Norf.* p. 36; *Yarr. Brit. B.* 2 edit. ii. p. 35, fig.

*Pl. enl.* 402.

(Shepherd's Bush, and Rollesby Broad).

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## FAM. III. FRINGILLIDÆ.

### i. *COCCOTHRAUSTINÆ*.

#### 1. COCCOTHRAUSTES.

Coccothraustes, *Briss. Orn.* iii. pt. 1, p. 218 (1760).

1. COCCOTHRAUSTES VULGARIS. The Hawfinch.

Loxia coccothraustes, *Linn. S. N.* i. p. 299; *Leach, Syst. Cat. Mam. & B. B. M.* p. 13.
Fringilla coccothraustes, *Temm. Man. d'Orn.* 1815, p. 203; *Naum. Vög. Deuts.* (1824) iv. p. 435, t. 114; *Jenyns, Man. B. Vert. An.* p. 136.

Coccothraustes vulgaris, *Steph. Gen. Zool.* xiv. p. 86; *Flem. Brit. An.* p. 82; *Eyton, Cat. Brit. B.* p. 21; *Pr. Bonap. Geogr. Comp. List of B.* p. 30; *Keys. & Bl. Wirbelth. Eur.* p. 42; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 65; *G. R. Gray, Gen. of B.* ii. p. 358.
Coccothraustes fagorum, *Brehm, Vög. Deuts.* p. 256.
Coccothraustes cerasorum, *Brehm, Vög. Deuts.* p. 256, t. xvi. f. 6.
Coccothraustes planiceps, *Brehm, Vög. Deuts.* p. 258.
Coccothraustes atrigularis, *Macgill. Hist. Brit. B.* i. p. 356.
The Grosbeak, *Bew. Brit. B.* (1797) i. p. 133, fig.
Haw-Grosbeak, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 421.
Hawfinch, *Selby, Brit. Orn.* i. p. 262; *Yarr. Brit. B.* 2 edit. i. p. 531, fig.

*Pl. enl.* 99, 100; *Gould, B. of Eur.* pl. 199.

*a*. Greenwich. Presented by Mr. I. T. Hudson.
*b*. Hampstead Road. Presented by Mr. Ingham.
*c*, *d*. Cambridgeshire. Young. Presented by Mr. J. Baker.
*e*. Turnham Green. Male. From Mr. J. Baker's collection.
*f*. Turnham Green. Female. From Mr. J. Baker's collection.
*g*. Sternum. England. Presented by T. Ingall, Esq.
*h*. Two Skulls. England. Presented by John Ray, Esq.

## ii. *FRINGILLINÆ*.

### 2. FRINGILLA.

Fringilla, *Linn. S. N.* (1735).
Struthus, *Boie, Isis* (1826), p. 974.
Cælebs, *Cuv. Anat. Comp.* i. *Tab. Sec. Cl. des Ois.* (1799-1800).
Carduelis, *Briss. Ornith.* iii. pt. 1, p. 53 (1760).
Acanthis, *Meyer* (1815).
Lozops, *Cabanis, Ornith. Notiz.* ii. p. 330 (1847).
Emblema, *Gould, Proc. Z. S.* 1842, p. 17.
Chrysomitris, *Boie, Isis* (1828), p. 322.
Spinus, *Brehm, Isis* (1828), p. 1277.
Spinus, *Koch, Baier. Zool.* (1816).
Citrinella, *Pr. Bonap. Geogr. Comp. List of B.* p. 34 (1838).
Dryospiza, *Keys. & Bl. Wirbelth. Eur.* p. 41 (1840).
Serinus, *Brehm, Isis* (1828), p. 1276.
Ligurinus, *Koch, Baier. Zool.* p. (1816).
Chloris, *Mœhr. Av. Gen.* p. 41 (1752).
Chlorospiza, *Pr. Bonap. Sagg. Distr. Met. Anim. Vert.* (1832).
Petronia, *Kaup, Naturl. Syst. der Eur. Thier.* p. 158 (1829).

Gymnornis, *Hodgs. Gray's Zool. Miscell.* p. 84 (1844).
Cannabina, *Brehm, Isis* (1828), p. 1277.
Linota, *Pr. Bonap. Geogr. Comp. List of B.* p. 34 (1838).
Leucosticte, *Swains. Fauna Bor. Amer.* ii. p. 493 (1831).
Montifringilla, *Brehm, Isis* (1828), p. 1277.
Chionospiza, *Kaup, Naturl. Syst. der Eur. Thier.* p. 139 (1829).
Orites, *Keys. & Bl. Wirbelth. Eur.* p. 42 (1840).
Fringilauda, *Hodgs. As. Res.* xix. p. 158 (1836).
Nephæa, *Audub. Synop. B. of Amer.* p. * (1839).
Struthus, *Pr. Bonap.* (1838).

## a. FRINGILLA.

### 1. FRINGILLA CÆLEBS. The Chaffinch.

Fringilla cælebs, *Linn. S. N.* i. p. 318; *Temm. Man. d'Orn.* 1815, p. 218; *Leach, Syst. Cat. Mam. & B. B. M.* p. 15; *Naum. Vög. Deuts.* (1826), v. p. 13, t. 118; *Flem. Brit. An.* p. 83; *Brehm, Vög. Deuts.* p. 272; *Jenyns, Man. B. Vert. An.* p. 133; *Eyton, Cat. Brit. B.* p. 20; *Macgill. Hist. Brit. B.* i. p. 329; *Pr. Bonap. Geogr. Comp. List of B.* p. 31; *Keys. & Bl. Wirbelth. Eur.* p. 42; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 41; *G. R. Gray, Gen. of B.* ii. p. 371.
Struthus cælebs, *Boie, Isis* (1826), p. 974.
Fringilla hortensis, *Brehm, Vög. Deuts.* p. 272.
Fringilla sylvestris, *Brehm, Vög. Deuts.* p. 273.
Fringilla nobilis, *Brehm, Vög. Deuts.* p. 273.
Passer spiza, *Pall. Zoogr.* ii. p. 17.
The Chaffinch, *Bew. Brit. B.* (1797) i. p. 160, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 452; *Selby, Brit. Orn.* i. p. 269; *Yarr. Brit. B.* 2 edit i. p. 507, fig.

*Pl. enl.* 54, f. 1; *Gould, B. of Eur.* pl. 187.

*a*. Great Britain. Male.
*b*. Great Britain. Male.
*c*. Devonshire. Female. From Col. Montagu's collection.
*d*. Great Britain. Variety.
*e*. Saffron Walden. From Mr. J. Clark's collection.
*f*. Cambridgeshire. Young. Presented by Mr. J. Baker.
*g*. Saffron Walden. Very young. From Mr. J. Clark's collection.
*h*. Cambridgeshire. Very young. Presented by Mr. J. Baker.
*i*. Sternum. England. Presented by T. Ingall, Esq.
*j*. Skull. England. Presented by John Ray, Esq.

### 2. Fringilla montifringilla. The Mountain Finch.

Fringilla montifringilla, *Linn. S. N.* i. p. 318; *Temm. Man. d'Orn.* 1815, p. 229; *Leach, Syst. Cat. Mam. & B. B. M.* p. 14; *Naum. Vög. Deuts.* (1826) v. p. 44, t. 119; *Flem. Brit. An.* p. 84; *Brehm, Vög. Deuts.* p. 275; *Jenyns, Man. B. Vert. An.* p. 134; *Eyton, Cat. Brit. B.* p. 20; *Macgill. Hist. Brit. B.* i. p. 335; *Pr. Bonap. Geogr. Comp. List of B.* p. 31; *Keys. & Bl. Wirbelth. Eur.* p. 42; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 61; *G. R. Gray, Gen. of B.* ii. p. 371.
Fringilla lulensis, *Linn. Faun. Suec.* p. 86.
Fringilla flammea, *Beseke, Vög. Curl.* p. 79.
Fringilla septentrionalis, *Brehm, Vög. Deuts.* p. 274.
Struthus montifringilla, *Boie, Isis* (1828) p. 323.
The Mountain Finch, *Bew. Brit. B.* (1797) i. p. 163, fig.; *Yarr. Brit. B.* 2 edit. i. p. 512, fig.
Brambling or Bramble, *Mont. Orn. Dict.*
Brambling Finch, *Penn. Brit. Zool.* (1812) i. p. 454.
Mountain Finch, *Selby, Brit. Orn.* i. p. 272.

*Pl. enl.* 54, f. 2; *Gould, B. of Eur.* pl. 188.

*a*. Devonshire. Male. From Col. Montagu's collection.
*b*. Cornwall. Male. From Col. Montagu's collection.
*c*. Great Britain. Female. From Col. Montagu's collection.
*d*. Saffron Walden. From Mr. J. Clark's collection.
*e*. Epping. Presented by H. Doubleday, Esq.
*f*. Cambridgeshire. Male. From Mr. J. Baker's collection.
*g*. Cambridgeshire. Female. From Mr. J. Baker's collection.
*h*. Sternum. England. Presented by T. Ingall, Esq.
*i*. Sternum. England. Presented by John Ray, Esq.
*j*. Skull. England. Presented by John Ray, Esq.

## b. Carduelis.

### 3. Fringilla carduelis. The Goldfinch.

Fringilla carduelis, *Linn. S. N.* i. p. 318; *Temm. Man. d'Orn.* 1815, p. 229; *Leach, Syst. Cat. Mam. & B. B. M.* p. 15; *Naum. Vög. Deuts.* (1826) v. p. 126, t. 124, f. 1, 2; *Flem. Brit. An.* p. 85; *Jenyns, Man. B. Vert. An.* p. 137; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 63; *G. R. Gray, Gen. of B.* ii. p. 371.
Spinus Carduelis, *Koch, Baier. Zool.* i. p. 233.
Carduelis carduelis, (*Cuv.*) *Boie, Isis* (1822), p. 554.
Carduelis elegans, *Steph. Gen. Zool.* xiv. p. 30; *Macgill. Hist. Brit. B.* i. p. 393; *Pr. Bonap. Geogr. Comp. List of B.* p. 33.

Carduelis aurata, *Eyton, Cat. Brit. B.* p. 20.
Carduelis septentrionalis, *Brehm, Vög. Deuts.* p. 288.
Carduelis germanicus, *Brehm, Vög. Deuts.* p. 289, t. xviii. f. 7.
Fringilla (Acanthis) carduelis, *Keys. & Bl. Wirbelth. Eur.* p. 61.
The Goldfinch, *Bew. Brit. B.* (1797) i. p. 165, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 447; *Selby, Brit. Orn.* i. p. 584; *Yarr. Brit. B.* 2 edit. i. p. 539, fig.

*Pl. enl.* 4, f. 1; *Gould, B. of Eur.* pl. 196.

*a*. Devonshire. Male. From Col. Montagu's collection.
*b*. London. Variety.
*c*. London. Female.
*d*. Brighton. Variety.
*e*. Great Britain.
*f*. London. Female.
*g*. Saffron Walden. Young. From Mr. J. Clark's collection.
*h*, *i*. Cambridgeshire. Very young. Presented by Mr. J. Baker.
*j*. Sternum. England. Presented by T. Ingall, Esq.

## c. Chrysomitris.

### 4. Fringilla spinus. The Siskin.

Fringilla spinus, *Linn. S. N.* i. p. 322; *Temm. Man. d'Orn.* 1815, p. 225; *Naum. Vög. Deuts.* (1826) v. p. 155, t. 125; *Flem. Brit. An.* p. 85; *Jenyns, Man. B. Vert. An.* p. 137; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 63; *G. R. Gray, Gen. of B.* ii. p. 371.
Linaria spinus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 15; *Eyton, Cat. Brit. B.* p. 20.
Spinus viridis, *Koch, Baier. Zool.* i. p. 235.
Serinus spinus, *Boie, Isis* (1822), p. 555.
Spinus alnorum, *Brehm, Vög. Deuts.* p. 284.
Spinus medius, *Brehm, Vög. Deuts.* p. 285.
Spinus betularum, *Brehm, Vög. Deuts.* p. 286, t. xviii. f. 6.
Carduelis spinus, *Steph. Gen. Zool.* xiv. p. 33; *Macgill. Hist. Brit. B.* i. p. 400.
Chrysomitris spinus, *Boie, Isis* (1828), p. 322; *Pr. Bonap. Geogr. Comp. List of B.* p. 33.
Fringilla (Acanthis) spinus, *Keys. & Bl. Wirbelth. Eur.* p. 41.
The Siskin, *Bew. Brit. B.* (1797) i. p. 167, fig.; *Selby, Brit. Orn.* i. p. 282; *Yarr. Brit. B.* 2 edit. i. p. 544, fig.
Siskin Finch, *Penn. Brit. Zool.* (1812) i. p. 459, fig. upp.

*Pl. enl.* 485, f. 3; *Gould, B. of Eur.* pl. 197.

*a*. London. Male. From Col. Montagu's collection.
*b*. London. Female. Presented by J. F. Stephens, Esq.
*c*. Great Britain.
*d*. Turnham Green. Male. From Mr. J. Baker's collection.
*e*. Turnham Green. Female. From Mr. J. Baker's collection.

## d. Ligurinus.

### 5. Fringilla chloris. The Greenfinch.

Loxia chloris, *Linn. S. N.* i. p. 304.
Fringilla chloris, *Temm. Man. d'Orn.* (1815) p. 206; *Leach, Syst. Cat. Mam. & B. B. M.* p. 14; *Naum. Vög. Deuts.* (1826) v. p. 62, t. 120; *Jenyns, Man. B. Vert. An.* p. 136; *Keys. & Bl. Wirbelth. Eur.* p. 42; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 61; *G. R. Gray, Gen. of B.* ii. p. 371.
Ligurinus chloris, *Koch, Baier. Zool.* i. p. 230.
Serinus chloris, *Boie, Isis* (1822), p. 555.
Coccothraustes chloris, *Steph. Gen. Zool.* xiv. p. 87; *Flem. Brit. An.* p. 83; *Eyton, Cat. Brit. B.* p. 21.
Chloris pinetorum, *Brehm, Vög. Deuts.* p. 259, t. xvii. f. 1.
Chloris hortensis, *Brehm, Vög. Deuts.* p. 260.
Chloris septentrionalis, *Brehm, Vög. Deuts.* p. 261.
Linaria chloris, *Macgill. Hist. Brit. B.* i. p. 366.
Chlorospiza chloris, *Pr. Bonap. Geogr. Comp. List of B.* p. 30; *Macgill. Man. N. H. Ornith.* i. p. 204.
Green Grosbeak, *Bew. Brit. B.* (1797) i. p. 136, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 432.
Greenfinch, *Selby, Brit. Orn.* i. p. 263; *Yarr. Brit. B.* 2 edit. i. p. 527, fig.

*Pl. enl.* 267, f. 2; *Gould, B. of Eur.* pl. 200.

*a*. Devonshire. Male. From Col. Montagu's collection.
*b*. Great Britain.
*c*. Kent. Variety.
*d*. Great Britain.
*e*. Hampshire. Presented by Mr. G. L. Scott.
*f, g*. Cambridgeshire. Young. Presented by Mr. J. Baker.
*h*. Saffron Walden. Young. From Mr. J. Clark's collection.
*i*. Cambridgeshire. Very young. Presented by Mr. J. Baker.
*j*. Sternum. England. Presented by T. Ingall, Esq.
*k*. Sternum. England. Presented by John Ray, Esq.

## e. Cannabina.

### 6. Fringilla cannabina. The Common Linnet.

Fringilla cannabina, *Linn. S. N.* i. p. 322; *Temm. Man. d'Orn.* 1815, p. 215; *Naum. Vög. Deuts.* (1826) v. p. 80, t. 121; *Flem. Brit. An.* p. 84; *Jenyns, Man. B. Vert. An.* p. 139; *Keys. & Bl. Wirbelth. Eur.* p. 41; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 63; *G. R. Gray, Gen. of B.* ii. p. 372.
Fringilla linota, *Gmel. S. N.* i. p. 916.
Passer papaverina, *Pall. Zoogr.* ii. p. 27.
Ligurinus cannabina, *Koch, Baier. Zool.* i. p. 231.
Linaria cannabina, *Boie, Isis* (1822), p. 554; *Eyton, Cat. Brit. B.* p. 21; *Macgill. Hist. Brit. B.* i. p. 371.
Cannabina pinetorum, *Brehm, Vög. Deuts.* p. 276.
Cannabina arbustorum, *Brehm, Vög. Deuts.* p. 277.
Linota cannabina, *Pr. Bonap. Geogr. Comp. List of B.* p. 54; *Macgill. Man. N. H. Ornith.* i. p. 199.
The Greater Redpole, *Bew. Brit. B.* (1797) i. p. 173; *Mont. Orn. Dict.*
Red-headed Finch, *Penn. Brit. Zool.* (1812) i. p. 464.
Common or Brown Linnet, *Selby, Brit. Orn.* i. p. 274.
Linnet, *Bew. Brit. B.* (1797) i. p. 171.
The Common Linnet, *Yarr. Brit. B.* 2 edit. i. p. 550, fig.

*Pl. enl.* 485, f. 1, 151, f. 1, 2; *Gould, B. of Eur.* pl. 191.

*a*, *b*. Great Britain. Male.
*c*. Devonshire. Female.
*d*. Great Britain.
*e*. London. Variety. Presented by J. F. Stephens, Esq..
*f*. Devonshire. Albino variety.
*g*. Great Britain. Albino variety.
*h*, *i*. Saffron Walden. From Mr. J. Clark's collection.
*j*, *k*. Cambridgeshire. Young. Presented by Mr. J. Baker.
*l*. Sternum. England. Presented by John Ray, Esq.

### 7. Fringilla linaria. The Lesser Redpole.

Fringilla linaria, *Linn. S. N.* i. p. 332; *Naum. Vög. Deuts.* (1826) v. p. 173, t. 126; *Flem. Brit. An.* p. 85; *Jenyns, Man. B. Vert. An.* p. 138; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 63; *G. R. Gray, Gen. of B.* ii. p. 372.

Linaria minor, *Leach, Syst. Cat. Mam. & B. B. M.* p. 15.
Fringilla (Acanthis) linaria, *Keys. & Bl. Wirbelth. Eur. p.* 41.
Spinus linaria, *Koch, Baier. Zool.* i. p. 233.
Linota linaria, *Pr. Bonap. Geogr. Comp. List of B.* p. 34; *Macgill. Man. N. H. Ornith.* i. p. 201.
Fringilla rufescens, *Vieill. Mem. dell. Acad. dell. Sci. de Torino*, xxiii. p. 204.
Linaria flavirostris, *Eyton, Cat. Brit. B.* p. 21; *Macgill. Hist. Brit. B.* i. p. 379.
Linaria Holbœllii, *Brehm, Vög. Deuts.* p. 280.
Linaria alnorum, *Brehm, Vög. Deuts.* p. 281.
Linaria agrorum, *Brehm, Vög. Deuts.* p. 281.
Linaria betularum, *Brehm, Vög. Deuts.* p. 282.
Linaria flavirostris, *Brehm, Vög. Deuts.* p. 282.
Linaria linaria, *Boie, Isis* (1822), p. 554.
Linaria rubra, *Steph. Gen. Zool.* xiv. p. 29.
Lesser Redpole, *Bew. Brit. B.* (1797) i. p. 174, fig.; *Mont. Orn. Dict.; Yarr. Brit. B.* 2 edit. i. p. 562, fig.
Less Red-headed Finch, *Penn. Brit. Zool.* (1812) i. p. 466.
Lesser Redpole Finch, *Selby, Brit. Orn.* i. p. 279.

*Pl. enl.* 485, f. 2; *Gould, B. of Eur.* pl. 194.

*a*. Bath. Male. From Col. Montagu's collection.
*b*. Bath. Female. From Col. Montagu's collection.
*c*. Cambridgeshire. From Mr. J. Baker's collection.
*d*. Sternum. England. Presented by T. Ingall, Esq.

### 8. Fringilla borealis. The Mealy Redpole.

Fringilla borealis, *Roux, Ornit. Prov.* i. p. 165, t. 101, 102; *Temm. Man. d'Orn.* iii. p. 264; *G. R. Gray, Gen. of B.* ii. p. 372.
Linaria canescens, *Gould, Eyton, Cat. Brit. B.* p. 20.
Fringilla canescens, *Schleg. Rev. Crit. des Ois. d'Eur.* p. 63.
Linaria borealis, *Selby, Newcastle Nat. Hist. Trans.* i. p. 263; *Macgill. Hist. Brit. B.* i. p. 388.
Fringilla (Acanthis) borealis, *Keys. & Bl. Wirbelth. Eur.* p. 41.
Linota canescens, *Pr. Bonap. Geogr. Comp. List of B.* p. 34.
Fringilla linaria, var. *β. Jenyns, Man. B. Vert. An.* p. 139.
Linota borealis, *Macgill. Man. N. H. Ornith.* i. p. 201.
The Mealy Redpole, *Yarr. Brit. B.* 2 edit. i. p. 557, fig.

*Gal. des Ois.* t. 65; *Gould, B. of Eur.* pl. 193.

*a*. London. Presented by —— Prentis, Esq.
*b*, *c*. Inverness. From Mr. J. Baker's collection.

9. FRINGILLA FLAVIROSTRIS. The Mountain Linnet.

Fringilla flavirostris, *Linn. S. N.* i. p. 322; *Keys. & Bl. Wirbelth. Eur.* p. 61; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 62; *G. R. Gray, Gen. of B.* ii. p. 372.
Fringilla montium, *Gmel. S. N.* i. p. 917; *Naum. Vög. Deuts.* (1826) v. p. 103, t. 122; *Flem. Brit. An.* p. 84; *Jenyns, Man. B. Vert. An.* p. 140.
Linaria montium, *Leach, Syst. Cat. Mam. & B. B. M.* p. 15.
Fringilla cannabina (part), *Temm. Man. d'Orn.* 1815, p. 216.
Cannabina montium, *Brehm, Vög. Deuts.* p. 278, t. xvii. f. 4.
Cannabina flavirostris, *Brehm, Vög. Deuts.* p. 278.
Cannabina media, *Brehm, Vög. Deuts.* p. 279.
Linota montium, *Pr. Bonap. Geogr. Comp. List of B.* p. 34; *Macgill. Man. N. H. Ornith.* i. p. 200.
Linaria flavirostris, *Macgill. Hist. Brit. B.* i. p. 379.
Twite, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 467; pl. lx. low. fig.
Mountain Linnet or Twite, *Selby, Brit. Orn.* i. p. 278; *Yarr. Brit. B.* 2 edit. i. p. 569, fig.

*Gould, B. of Eur.* pl. 192.

*a.* Norfolk. Male.
*b.* Orkney. From Mr. J. Baker's collection.

## 3. PASSER.

Passer, *Briss. Orn.* iii. pt. 1, p. 71 (1760).
Pyrgita, *Cuv. Règ. An.* 1817, i. p. 385.

1. PASSER DOMESTICUS. The House Sparrow.

Fringilla domestica, *Linn. S. N.* i. p. 323; *Temm. Man. d'Orn.* 1815, p. 210; *Naum. Vög. Deuts.* (1824) iii. p. 544, t. 115; *Jenyns, Man. B. Vert. An.* p. 134.
Passer domesticus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 13; *Macgill. Hist. Brit. B.* i. p. 340; *Keys. & Bl. Wirbelth. Eur.* p. 60; *Schleg. Rev. Crit. des. Ois. d'Eur.* p. 64; *G. R. Gray, Gen. of B.* ii. p. 372.
Pyrgita domestica, *Boie, Isis* (1822), p. 554; *Flem. Brit. An.* p. 83; *Brehm, Vög. Deuts.* p. 264; *Eyton, Cat. Brit. B.* p. 19; *Pr. Bonap. Geogr. Comp. List of B.* p. 31.

Pyrgita pagorum, *Brehm, Vög. Deuts.* p. 265.
Pyrgita rustica, *Brehm, Vög. Deuts.* p. 266, t. xvii. f. 2.
The House Sparrow, *Bew. Brit. B.* (1797) i. p. 154, fig.; *Mont. Orn. Dict.; Selby, Brit. Orn.* i. p. 265; *Yarr. Brit. B.* 2 edit. i. p. 521, fig.
Sparrow Finch, *Penn. Brit. Zool.* (1812) i. p. 456, pl. lviii.

*Pl. enl.* 6, f. 1, 55, f. 1; *Gould, B. of Eur.* pl. 184, f. 1.

*a.* Devonshire. From Col. Montagu's collection.
*b.* Devonshire. Variety. From Col. Montagu's collection.
*c.* London. Variety.
*d.* London. Variety. Presented by J. F. Stephens, Esq.
*e.* Great Britain. Variety. From Col. Montagu's collection.
*f.* Great Britain. Very young.
*g, h.* London. Very young. Varieties.
*i.* Cambridgeshire. Very young. Presented by Mr. J. Baker.
*j.* Sternum. England. Presented by T. Ingall, Esq.

### 2. Passer montanus. The Tree Sparrow.

Fringilla montana, *Linn. S. N.* i. p. 324; *Temm. Man. d'Orn.* 1815, p. 212; *Naum. Vög. Deuts.* (1824) iv. p. 480, t. 116; *Jenyns, Man. B. Vert. An.* p. 135.
Loxia hamburgia, *Gmel. S. N.* i. p. 854.
Passer montanina, *Pall. Zoogr.* ii. p. 30.
Passer montanus, *Steph. Gen. Zool.* xiv. p. 40; *Macgill. Hist. Brit. B.* i. p. 351; *Keys. & Bl. Wirbelth. Eur.* p. 39; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 64; *G. R. Gray, Gen. of B.* ii. p. 372.
Passer hamburgensis, *Leach, Syst. Cat. Mam. & B. B. M.* p. 14.
Pyrgita montana, *Boie, Isis* (1822), p. 554; *Flem. Brit. An.* p. 83; *Brehm, Vög. Deuts.* p. 268; *Eyton, Cat. Brit. B.* p. 19; *Pr. Bonap. Geogr. Comp. List of B.* p. 31.
Pyrgita campestris, *Brehm, Vög. Deuts.* p. 267.
Pyrgita septentrionalis, *Brehm, Vög. Deuts.* p. 268.
The Mountain Sparrow, *Bew. Brit. B.* (1797) i. p. 158, fig.
Tree Sparrow, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 458, pl. lix. upp. fig.; *Selby, Brit. Orn.* i. p. 267; *Yarr. Brit. B.* 2 edit. i. p. 516, fig.

*Gould, B. of Eur.* pl. 184, f. 2.

*a.* Lincolnshire. Male. From Col. Montagu's collection.
*b.* Sternum. England. Presented by John Ray, Esq.

### 4. SPIZA.

Spiza, *Pr. Bonap. Syn. B. of U. S.* p. 106 (1828).
Passerina, *Vieill. Analyse*, &c., p. 30 (1816).
Paroaria, *Pr. Bonap. Sagg. Distr. Met. An. Vert.* (1832).
Calyptrophorus, *Cabanis, Ornith. Notiz.* p. 329 (1847).

#### a. SPIZA.

##### 1. SPIZA CIRIS. The Painted Bunting.

Emberiza ciris, *Linn. S. N.* i. p. 313; *Jenyns, Man. B. Vert. An.* p. 133; *Flem. Brit. An.* p. 78.
Spiza ciris, *Pr. Bonap. Geogr. Comp. List of B.* p. 35; *G. R. Gray, Gen. of B.* ii. p. 375.
Painted Bunting, *Mont. Orn. Dict. Suppl.* (with White-winged Grosbeak).

*Edwards, Birds*, pl. 130, 273.

(? Portland Island).

### iii. *EMBERIZINÆ.*

#### 1. EMBERIZA.

Emberiza, *Linn. S. N.* (1748).
Fringilla, *Linn. S. N.* (1735).
Cynchramus, *Boie, Isis* (1826), p. 974.
Cia, *Kaup, Naturl. Syst. der Eur. Thier.* p. 138 (1829).
Citrinella, *Kaup, Naturl. Syst. der Eur. Thier.* p. 142 (1829).
Orospina, *Kaup, Naturl. Syst. der Eur. Thier.* p. 154 (1829).
Cirlus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 153 (1829).
Spina, *Kaup, Naturl. Syst. der Eur. Thier.* p. 153 (1829).
Spinus, *Mœhring, Gen. Av.* p. 41 (1752).
Miliaria, *Brehm, Isis* (1828), p. 1278.

## a. Miliaria.

### 1. Emberiza miliaria. The Common Bunting.

Emberiza miliaria, *Linn. S. N.* i. p. 308; *Temm. Man. d'Orn.* 1815, p. 180; *Leach, Syst. Cat. Mam. & B. B. M.* p. 16; *Naum. Vög. Deuts.* (1824) iv. p. 213, t. 101, f. 1; *Flem. Brit. An.* p. 77; *Jenyns, Man. B. Vert. An.* p. 130; *Eyton, Cat. Brit. B.* p. 18; *Macgill. Hist. Brit. B.* i. p. 438; *Keys. & Bl. Wirbelth. Eur.* p. 39; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 71; *G. R. Gray, Gen. of B.* ii. p. 377.

Miliaria septentrionalis, *Brehm, Vög. Deuts.* p. 291.

Miliaria germanica, *Brehm, Vög. Deuts.* p. 292.

Miliaria peregrina, *Brehm, Vög. Deuts.* p. 292, t. xix. f. 1.

Cynchramus miliaria, *Pr. Bonap. Geogr. Comp. List of B.* p. 35.

The Bunting, *Bew. Brit. B.* (1797) i. p. 141.

Common Bunting, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 435; *Selby, Brit. Orn.* i. p. 239; *Yarr. Brit. B.* 2 edit. i. p. 479, fig.

*Gould, B. of Eur.* pl. 171.

*a*. Wiltshire. From Col. Montagu's collection.
*b*. Middlesex. Variety. Presented by N. A. Vigors, Esq.
*c*. Epping. Presented by Henry Doubleday, Esq.
*d*, *e*. Cambridgeshire. From Mr. J. Baker's collection.
*f*. Sternum. England. Presented by T. Ingall, Esq.
*g*. Sternum. England. Presented by John Ray, Esq.

## b. Cynchramus.

### 2. Emberiza schœniclus. The Black-headed Bunting.

Emberiza schœniclus, *Linn. S. N.* i. p. 311; *Temm. Man. d'Orn.* 1815, p. 181; *Leach, Syst. Cat. Mam. & B. B. M.* p. 16; *Naum. Vög. Deuts.* (1824) iv. p. 280, t. 105; *Flem. Brit. An.* p. 78; *Jenyns, Man. B. Vert. An.* p. 130; *Eyton, Cat. Brit. B.* p. 18; *Macgill. Hist. Brit. B.* i. p. 453; *Pr. Bonap. Geogr. Comp. List of B.* p. 36; *Keys. & Bl. Wirbelth. Eur.* p. 39; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 70; *G. R. Gray, Gen. of B.* ii. p. 377.

Emberiza arundinacea, *S. G. Gmel. Reise*, ii. p. 175.

Emberiza passerina, *Gmel. S. N.* i. p. 871.

Cynchramus schœniclus, *Boie, Isis* (1826), p. 974; *Brehm, Vög. Deuts.* p. 302.

Cynchramus stagnatilis, *Brehm, Vög. Deuts.* p. 301.
Cynchramus septentrionalis, *Brehm, Vög. Deuts.* p. 302, t. xix. f. 3.
The Black-headed Bunting, *Bew. Brit. B.* (1797) i. p. 145, fig.; *Yarr. Brit. B.* 2 edit. i. p. 484, fig.
Reed Bunting, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 440; *Selby, Brit. Orn.* i. p. 242.

*Pl. enl.* 247, f. 2, 497, f. 2; *Gould, B. of Eur.* pl. 183.

*a.* Wiltshire. Male. From Col. Montagu's collection.
*b.* Wiltshire. Female. From Col. Montagu's collection.
*c—d.* Cambridgeshire. From Mr. J. Baker's collection.

## c. Citrinella.

### 3. Emberiza citrinella. The Yellow Bunting.

Emberiza citrinella, *Linn. S. N.* i. p. 309; *Temm. Man. d'Orn.* 1815, p. 178; *Leach, Syst. Cat. Mam. & B. B. M.* p. 16; *Naum. Vög. Deuts.* (1824) iv. p. 234, t. 102, f. 1, 2; *Flem. Brit. An.* p. 77; *Brehm, Vög. Deuts.* p. 294; *Jenyns, Man. B. Vert. An.* p. 131; *Eyton, Cat. Brit. B.* p. 18; *Macgill. Hist. Brit. B.* i. p. 445; *Pr. Bonap. Geogr. Comp. List of B.* p. 36; *Keys. & Bl. Wirbelth. Eur.* p. 39; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 68: *G. R. Gray, Gen. of B.* ii. p. 377.
Emberiza sylvestris, *Brehm, Vög. Deuts.* p. 294.
Emberiza septentrionalis, *Brehm, Vög. Deuts.* p. 294.
Citrinella ———, *Kaup, Naturl. Syst.* p. 142.
Yellow Bunting, *Bew. Brit. B.* (1797) i. p. 143, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 437, pl. lv. upp. fig.; *Selby, Brit. Orn.* i. p. 241; *Yarr. Brit. B.* 2 edit. i. p. 490, fig.

*Pl. enl.* 30, f. 1; *Gould, B. of Eur.* pl. 176.

*a.* Wiltshire. Male. From Col. Montagu's collection.
*b.* Wiltshire. Female. From Col. Montagu's collection.
*c.* Wiltshire. Variety. From Col. Montagu's collection.
*d.* Saffron Walden. From Mr. J. Clark's collection.
*e.* Cambridgeshire. Presented by Mr. J. Baker.
*f.* Epping. Presented by Henry Doubleday, Esq.
*g, h.* Saffron Walden. Very young. From Mr. J. Clark's collection.
*i, j.* Cambridgeshire. Very young. Presented by Mr. J. Baker.
*k.* Cambridgeshire. Adult. From Mr. J. Baker's collection.

### 4. Emberiza hortulana. The Ortolan Bunting.

Emberiza hortulana, *Linn. S. N.* i. p. 309; *Temm. Man. d'Orn.* 1815, p. 183; *Naum. Vög. Deuts.* (1824) iv. p. 258, t. 103; *Brehm, Vög. Deuts.* p. 296; *Jenyns, Man. B. Vert. An.* p. 133; *Macgill. Hist. Brit. B.* i. p. 457; *Pr. Bonap. Geogr. Comp. List of B.* p. 36; *Keys. & Bl. Wirbelth. Eur.* p. 38; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 49; *G. R. Gray, Gen. of B.* ii. p. 377.
Emberiza chlorocephala, *Gmel. S. N.* i. p. 887.
Emberiza Tunstallii, *Lath. Ind. Orn.* i. p. 418.
Emberiza Malbeyensis, *Sparrm. Mus. Carls.* t. 1.
Emberiza badensis, *Gmel. S. N.* i. p. 873.
Emberiza citrinella, var., *Flem. Brit. An.* p. 77.
Emberiza pinguescens, *Brehm, Vög. Deuts.* p. 295.
Citrinella hortulana, *Kaup, Naturl. Syst.* p. 142.
Green-headed Bunting, *Mont. Orn. Dict.*
The Ortolan Bunting, *Yarr. Brit. B.* 2 edit. i. p. 502.

*Brown, Illustr.* pl. 30; *Gould, B. of Eur.* pl. 176.

(Mary-la-bone Fields and off Coast of Yorkshire).

## d. Cirlus.

### 5. Emberiza cirlus. The Cirl Bunting.

Emberiza cirlus, *Linn. S. N.* i. p. 311; *Temm. Man. d'Orn.* 1815, p. 185; *Leach, Syst. Cat. Mam. & B. B. M.* p. 16; *Naum. Vög. Deuts.* (1824) iv. p. 251, t. 102, f. 3, 4; *Flem. Brit. An.* p. 77; *Brehm, Vög. Deuts.* p. 297; *Jenyns, Man. B. Vert. An.* p. 131; *Eyton, Cat. Brit. B.* p. 18; *Macgill. Hist. Brit. B.* i. p. 450; *Pr. Bonap. Geogr. Comp. List of B.* p. 36; *Keys. & Bl. Wirbelth. Eur.* p. 38; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 68; *G. R. Gray, Gen. of B.* ii. p. 377.
Emberiza eleathorax, *Bechst. Naturg. Deuts.* iii. p. 292; *Brehm, Vög. Deuts.* p. 297.
Cirlus ———, *Kaup, Naturl. Syst.* p. 153.
Cirl Bunting, *Mont. Orn. Dict. & Suppl. pl.; Penn. Brit. Zool.* (1812), i. p. 438, pl. lvii.; *Selby, Brit. Orn.* i. p. 245; *Yarr. Brit. B.* 2 edit. i. p. 495.

*Pl. enl.* 653, f. 1, 2; *Gould, B. of Eur.* pl. 175.

*a*. Devonshire. Male. From Col. Montagu's collection.
*b*. Somersetshire. Female. From Col. Montagu's collection.

## 2. PLECTROPHANES.

Plectrophanes, *Meyer* (1815 ?).
Centrophanes, *Kaup, Naturl. Syst. der Eur. Thier.* p. 158 (1829).
Hortulanus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 15 (1815).

### a. PLECTROPHANES.

#### 1. PLECTROPHANES NIVALIS. The Snow Bunting.

Emberiza nivalis, *Linn. S. N.* i. p. 308; *Temm. Man. d'Orn.* 1815, p. 188; *Naum. Vög. Deuts.* (1824) iv. p. 297, t. 106; *Flem. Brit. An.* p. 78; *Jenyns, Man. B. Vert. An.* p. 128.
Emberiza montana, *Gmel. S. N.* i. p. 867.
Emberiza glacialis, *Lath. Ind. Orn.* i. p. 398.
Emberiza mustelina, *Gmel. S. N.* i. p. 867.
Hortulanus glacialis, *Leach, Syst. Cat. Mam. & B. B. M.* p. 15.
Hortulanus montanus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 16.
Plectrophanes nivalis, *Meyer, Eyton, Cat. Brit. B.* p. 19; *Macgill. Hist. Brit. B.* i. p. 460; *Pr. Bonap. Geogr. Comp. List of B.* p. 36; *Keys. & Bl. Wirbelth. Eur.* p. 38; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 72; *G. R. Gray, Gen. of B.* ii. p. 379.
Plectrophanes borealis, *Brehm, Vög. Deuts.* p. 305.
Plectrophanes montanus, *Brehm, Vög. Deuts.* p. 305.
Plectrophanes mustelinus, *Brehm, Vög. Deuts.* p. 306.
Snow Bunting, *Bew. Brit. B.* (1797) i. p. 148; *Mont. Orn. Dict.; Selby, Brit. Orn.* i. p. 247; *Yarr. Brit. B.* 2 edit. i. p. 470, fig.
Tawny Bunting, *Bew. Brit. B.* (1797) i. p. 150, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1813) i. p. 442.
*Pl. enl.* 497, f. 1, 511, f. 2; *Gould, B. of Eur.* pl. 170.
*a.* Great Britain. Winter.
*b.* Devonshire. Female. From Col. Montagu's collection.
*c.* Devonshire. Young. From Col. Montagu's collection.
*d—e.* Great Britain.
*f, g.* Two Sterna. England. Presented by T. Ingall, Esq.
*h.* Sternum. England. Presented by John Ray, Esq.
*i.* Skull. England. Presented by John Ray, Esq.

### b. CENTROPHANES.

#### 2. PLECTROPHANES LAPPONICA. The Lapland Bunting.

Emberiza lapponica, *Nils. Ornith. Suec.* i. p. 157; *Naum. Vög. Deuts.* (1824) iv. p. 319, t. 108; *Jenyns, Man. B. Vert. An.* p. 128.
Fringilla calcarata, *Pall. It.* ii. p. 710.
Fringilla lapponica, *Gmel. S. N.* i. p. 900.
Emberiza calcarata, *Temm. Man. d'Orn.* (1815) p. 190.
Centrophanes lapponica, *Kaup, Naturl. Syst.* p. 158.
Plectrophanes lapponica, *Selby, Linn. Trans.* xv. p. 156, pl. 1; *Eyton, Cat. Brit. B.* p. 19; *Macgill. Hist. Brit. B.* i. p. 469; *Pr. Bonap. Geogr. Comp. List. of B.* p. 36; *Keys. & Bl. Wirbelth. Eur.* p. 38; *G. R. Gray, Gen. of B.* ii. p 379.
Plectrophanes calcaratus, *Meyer. Boie, Isis* (1822), p. 554; *Brehm, Vög. Deuts.* p. 306; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 72.
The Lapland Bunting, *Yarr. Brit. B.* 2 edit. i. p. 465, fig.; *Eyton, R. Brit. B.* p. 95, fig.

*Gould, B. of Eur.* pl. 169.

(London Market, Brighton and Lancashire, &c.).

## iv. *ALAUDINÆ.*

### 1. ALAUDA.

Alauda, *Linn. S. N.* (1735).
Galerida, *Boie, Isis* (1828), p. 321.
Lullula, *Kaup, Naturl. Syst. der Eur. Thier.* p. 92 (1829).
Calandrella, *Kaup, Naturl. Syst. der Eur. Thier.* p. 39 (1829).
Calendula, *Swains. Classif. of B.* ii. p. 292 (1837).
Erana, *G. R. Gray, List of Gen. of B.* (1840) p. 48.
Heterops, *Hodgs. Gray's Zool. Misc.* p. 84 (1844).

### a. ALAUDA.

#### 1. ALAUDA ARVENSIS. The Skylark.

Alauda arvensis, *Linn. S. N.* i. p. 287; *Temm. Man. d'Orn.* 1815, p. 161; *Naum. Vög. Deuts.* (1824) iv. p. 156, t. 100, f. 1; *Flem.*

*Brit. An.* p. 79; *Brehm, Vög. Deuts.* p. 320; *Jenyns, Man. B. Vert. An.* p. 127; *Eyton, Cat. Brit. B.* p. 16; *Macgill. Hist. Brit. B.* ii. p. 163; *Pr. Bonap. Geogr. Comp. List of B.* p. 37; *Keys. & Bl. Wirbelth. Eur.* p. 36; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 59; *G. R. Gray, Gen. of B.* ii. p. 380.

Alauda vulgaris, *Leach, Syst. Cat. Mam. & B. B. M.* p. 21.

Alauda coelipeta, *Pall. Zoogr.* i. p. 524.

Alauda segetum, *Brehm, Vög. Deuts.* p. 318.

Alauda montana, *Brehm, Vög. Deuts.* p. 319, t. xx. f. 1.

Alauda agrestis, *Brehm, Vög. Deuts.* p. 320.

Alauda italica, *Gmel. S. N.* i. p. 793.

The Skylark, *Bew. Brit. B.* (1797) i. p. 178, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 475; *Selby, Brit. Orn.* i. p. 221; *Yarr. Brit. B.* 2 edit. i. p. 447, fig.

*Pl. enl.* 363, f. 1; *Gould, B. of Eur.* pl. 166.

*a.* Wiltshire. From Col. Montagu's collection.
*b.* Great Britain. Pale coloured.
*c.* Great Britain. Albino. From Col. Montagu's collection.
*d.* Great Britain. Albino.
*e.* Great Britain. Black variety.
*f.* Great Britain. Variegated.
*g.* Great Britain. Black variety.
*h.* Cambridgeshire. Young. Presented by Mr. J. Baker.
*i.* Cambridgeshire. Very young. Presented by Mr. J. Baker.
*j.* Cambridgeshire. Very young. Presented by Mr. J. Baker.
*k.* Skull. England. Presented by John Ray, Esq.
*l.* Sternum. England. Presented by John Ray, Esq.

## b. GALERIDA.

### 2. ALAUDA ARBOREA. The Wood Lark.

Alauda arborea, *Linn. S. N.* i. p. 287; *Temm. Man. d'Orn.* 1815, p. 162; *Naum. Vög. Deuts.* (1824) iv. p. 192, t. 100, f. 2; *Flem. Brit. An.* p. 79; *Jenyns, Man. B. Vert. An.* p. 127; *Eyton, Cat. Brit. B.* p. 16; *Macgill. Hist. Brit. B.* ii. p. 174; *Keys. & Bl. Wirbelth. Eur.* p. 36; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 59; *G. R. Gray, Gen. of B.* ii. p. 380.

Alauda nemorosa, *Gmel. S. N.* i. p. 797.

Alauda cristatella, *Lath. Ind. Orn.* i. p. 499.

Lullula arborea, *Kaup, Naturl. Syst.* p. 92.

Galerida nemorosa, *Brehm, Vög. Deuts.* p. 316.

Galerida arborea, *Brehm, Vög. Deuts.* p. 317; *Pr. Bonap. Geogr. Comp. List of B.* p. 37.
Wood Lark, *Bew. Brit. B.* (1797) i. p. 183, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 479; *Selby, Brit. Orn.* i. p. 224; *Yarr. Brit. B.* 2 edit. i. p. 459, fig.
Lesser Crested Lark, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 487.

*Pl. enl.* 503, f. 2; *Gould, B. of Eur.* pl. 167.

*a.* Wiltshire. From Col. Montagu's collection.
*b.* Sternum. England. Presented by John Ray, Esq.

### 3. Alauda cristata. The Crested Lark.

Alauda cristata, *Linn. S. N.* i. p. 288; *Temm. Man. d'Orn.* 1815, p. 159; *Naum. Vög. Deuts.* (1824) iv. p. 134, t. 99, f. 1; *Pall. Zoogr.* i. p. 523; *Keys. & Bl. Wirbelth. Eur.* p. 36; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 59; *G. R. Gray, Gen. of B.* ii. p. 380.
Alauda galerita, *Pall. Zoogr.* i. p. 524.
Alauda undata, *Gmel. S. N.* i. p. 797.
Galerida cristata, *Boie, Isis* (1828), p. 321; *Brehm, Vög. Deuts.* p. 315; *Pr. Bonap. Geogr. Comp. List of B.* p. 37.
Galerida viarum, *Brehm, Vög. Deuts.* p. 315.
Galerida undata, *Boie, Isis* (1828), p. 321; *Brehm, Vög. Deuts.* p. 316.
Lullula cristata, *Kaup, Naturl. Syst.* p. 92.
The Crested Lark, *Yarr. Brit. B.* 2 edit. i. p. 455, fig.

*Pl. enl.* 503, f. 1, 662; *Gould, B. of Eur.* pl. 165.

(Ireland).

## c. Calandrella.

### 4. Alauda brachydactyla. The Short-toed Lark.

Alauda brachydactyla, *Leisl. Ann. d. Wetter. Gesell.* iii. p. 357, t. 19; *Temm. Man. d'Orn.* 1815, p. 164; *Naum. Vög. Deuts.* (1824) ii. p. 188, t. 98, f. 2; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 59; *G. R. Gray, Gen. of B.* ii. p. 380.
Alauda arenaria, *Vieill. Fauna Franc.* p. 169, t. 74, f. 1, 2
Alauda pispoletta, *Pall. Zoogr.* i. p. 526.
Melanocorypha arenaria, *Pr. Bonap. Geogr. Comp. List of B.* p. 38.
Phileremos brachydactyla, *Keys. & Bl. Wirbelth. Eur.* p. 37.
Calandrella brachydactyla, *Kaup, Naturl. Syst.* p. 39.
Melanocorypha itala, *Brehm, Vög. Deuts.* p. 311.

Melanocorypha brachydactyla, *Brehm*, *Vög. Deuts.* p. 311.
Alauda calandrella, *Bon.*; *Savi*, *Ornit. Tosc.* ii. p. 67.
Short-toed Lark, *Yarr. Brit. B.* 2 edit. i. p. 463, fig.

*Gould*, *B. of Eur.* pl. 163.

(Shrewsbury).

### 2. OTOCORIS.

Otocoris, *Pr. Bonap.* (1839).
Eremophila, *Boie*, *Isis* (1828), p. 1278.
Phileremos, *Brehm*, *Vög. Deuts.* p. 312. (1831).
Philamnus, *G. R. Gray*, *List of Gen. of B.* (1840) p. 47.

#### 1. Otocoris alpestris. The Shore Lark.

Alauda alpestris, *Linn. S. N.* i. p. 289; *Temm. Man. d'Orn.* 1815, p. 160; *Naum. Vög. Deuts.* (1824) iv. p. 149, t. 99, f. 2, 3; *Jenyns*, *Man. B. Vert. An.* p. 126; *Eyton*, *Cat. Brit. B.* p. 16; *Macgill. Hist. Brit. B.* ii. p. 159; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 60.
Otocoris alpestris, *G. R. Gray*, *Gen. of B.* ii. p. 382.
Alauda flava, *Gmel. S. N.* i. p. 800.
Alauda nivàlis, *Pall. Zoogr.* i. p. 519.
Eremophila cornuta, *Boie*, *Isis* (1828), p. 322.
Alauda cornuta, *Swains. Ann. Phil.* (1827), p. 434.
Alauda chrysolaema, *Wagl.*
Phileremos alpestris, *Brehm*, *Vög. Deuts.* p. 313; *Pr. Bonap. Geogr. Comp. List of B.* p. 37; *Keys. & Bl. Wirbelth. Eur.* p. 37.
The Shore Lark, *Eyton*, *R. Brit. B.* p. 15, fig.; *Yarr. Brit. B.* 2 edit. i. p. 440, fig.

*Pl. enl.* 650, f. 2; *Wilson*, *Amer. Orn.* pl. 5, f. 4; *Gould*, *B. of Eur.* pl. 164.

(Norfolk, Lincolnshire and Kent).

## v. *Pyrrhulinæ*.

### 1. PYRRHULA.

Pyrrhula, *Mœhring*, *Gen. Av.* p. 40 (1752).

#### 1. Pyrrhula rubicilla. The Bulfinch.

Loxia Pyrrhula, *Linn. S. N.* i. p. 300.
Emberiza coccinea, *Sander. Naturf. Geselc.* xiii. p. 199.
Fringilla pyrrhula, *Temm. Man. d'Orn.* 1815, p. 200.

Pyrrhula europæa, *Leach*, *Syst. Cat. Mam. & B. B. M.* p. 13.
Pyrrhula rubicilla, *Pall. Zoogr.* ii. p. 7; *Keys. & Bl. Wirbelth. Eur.* p. 40; *G. R. Gray*, *Gen. of B.* ii. p. 387.
Pyrrhula vulgaris, *Temm. Man. d'Orn.* (1820) p. 338; *Naum. Vög. Deuts.* (1824) iv. p. 383, t. 111, f. 1—3; *Flem. Brit. An.* p. 82; *Jenyns*, *Man. B. Vert. An.* p. 140; *Eyton*, *Cat. Brit. B.* p. 22; *Pr. Bonap. Geogr. Comp. List of B.* p. 38; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 46.
Pyrrhula rufa, *Koch*, *Baier. Zool.* i. p. 227.
Pyrrhula major, *Brehm*, *Vög. Deuts.* p. 252.
Pyrrhula germanicus, *Brehm*, *Vög. Deuts.* p. 252, t. xvi. f. 4.
Pyrrhula peregrina, *Brehm*, *Vög. Deuts.* p. 253.
Pyrrhula pileata, *Macgill. Hist. Brit. B.* i. p. 407.
Bullfinch, *Bew. Brit. B.* (1797) i. p. 138, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 430; *Yarr. Brit. B.* 2 edit. i. p. 574, fig.
Bulfinch Grosbeak, *Selby*, *Brit. Orn.* i. p. 258.
*Pl. enl.* 145; *Gould*, *B. of Eur.* pl. 209.

*a*. Devonshire. From Col. Montagu's collection.
*b*. Great Britain.
*c*. Devonshire. Female. From Col. Montagu's collection.
*d*. Devonshire. Black variety. From Col. Montagu's collection.
*e*. Middlesex. White variety.
*f*. Cambridgeshire. Young. Presented by Mr. J. Baker.
*g*. Two skulls. England.
*h*. Sternum. England. Presented by T. Ingall, Esq.

## 2. STROBILOPHAGA.

Strobilophaga, *Vieill. Analyse, &c.*, p. 29 (1816).
Corythus, *Cuv. Règ. An.* (1817) i. p. 391.
Pinicola, *Vieill. Ois. d'Amer. Septr.* i. p. 4 (1807).
Densirostra, *Wood* (18 ?).

### 1. STROBILOPHAGA ENUCLEATOR. The Pine Grosbeak.

Loxia enucleator, *Linn. S. N.* i. p. 299.
Fringilla enucleator, *Temm. Man. d'Orn.* 1815, p. 198.
Loxia psittacea, *Pall.*
Loxia flamingo, *Sparr. Mus. Carls.* t. 17, var.
Pyrrhula enucleator, *Temm. Man. d'Orn.* (1820) i. p. 333; *Naum. Vög. Deuts.* (1824) iv. p. 403, t. 112; *Jenyns*, *Man. B. Vert. An.* p. 141; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 47.

Strobilophaga enucleator, *Vieill. N. Dict. Hist. Nat.* ix. p. 609; *G. R. Gray, Gen. of B.* ii. p. 387.
Pyrrhula (Corythus) enucleator, *Keys. & Bl. Wirbelth. Eur.* p. 40.
Corythus enucleator, *Cuv. Règ. An.* (1816) i. p. 415; *Flem. Brit. An.* p. 76; *Brehm, Vög. Deuts.* p. 247; *Eyton, Cat. Brit. B.* p. 22; *Macgill. Hist. Brit. B.* i. p. 411; *Pr. Bonap. Geogr. Comp. List of B.* p. 38.
Corythus angustirostris, *Brehm, Vög. Deuts.* p. 247.
The Pine Grosbeak, *Bew. Brit. B.* (1797) i. p. 135, fig.; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) i. p. 423, pl. liv. low. fig.; *Selby, Brit. Orn.* i. p. 256; *Yarr. Brit. B.* 2 edit. ii. p. 581, fig.

*Edwards, Birds*, pl. 123, 124; *Gould, B. of Eur.* pl. 204; *Pl. enl.* 135, f. 1.

(Aberdeenshire, Lancashire and Harrow-on-the-Hill).

## vi. *Loxinæ.*

### 1. LOXIA.

Loxia, *Linn. S. N.* (1735).
Curvirostra, *Scop.* (1777).
Crucirostra, *Cuv. Compar.* i. *Tab. Sec. Cl. des Ois.* (1799—1800).

#### 1. Loxia curvirostra. The Common Crossbill.

Loxia curvirostra, *Linn. S. N.* i. p. 299; *Temm. Man. d'Orn.* 1815, i. p. 195; *Naum. Vög. Deuts.* (1824) iv. p. 356, t. 110, f. 1—3; *Flem. Brit. An.* p. 76; *Jenyns, Man. B. Vert. An.* p. 141; *Eyton, Cat. Brit. B.* p. 22; *Pr. Bonap. Geogr. Comp. List of B.* p. 68; *Keys. & Bl. Wirbelth. Eur.* p. 41; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 68; *G. R. Gray, Gen. of B.* ii. p. 388.
Crucirostra europæa, *Leach, Syst. Cat. Mam. & B. B. M.* p. 12.
Crucirostra abietina, *Meyer, B. Liv. und Esthland.* p. 72.
Crucirostra media, *Brehm, Vög. Deuts.* p. 242.
Crucirostra montana, *Brehm, Vög. Deuts.* p. 243.
Crucirostra pinetorum, *Brehm, Vög. Deuts.* p. 244.
Loxia europæa, *Macgill. Hist. Brit. B.* i. p. 417.
The Crossbill, *Bew. Brit. B.* (1797) i. p. 130, fig.; *Mont. Orn. Dict.*
Cross-billed Grosbeak, *Penn. Brit. Zool.* (1812) i. p. 425.
Common Crossbill, *Selby, Brit. Orn.* i. p. 251; *Yarr. Brit. B.* 2 edit. ii. p. 1, fig.

*Pl. enl.* 218; *Gould, B. of Eur.* pl. 202.

*a.* Cambridgeshire. Male. Presented by Mr. J. Baker.
*b.* Somerset. Male. From Col. Montagu's collection.

*c*. Devonshire. Female. From Col. Montagu's collection.
*d—f*. Saffron Walden. From Mr. J. Clark's collection.
*g*. Turnham Green. From Mr. J. Baker's collection.
*h*. Sternum. England. Presented by John Ray, Esq.
*i*. Skull. England. Presented by John Ray, Esq.

### 2. Loxia pytiopsittacus. The Parrot Crossbill.

Loxia pytiopsittacus, *Bechst. Taschenb. Deuts.* iii. p. 106; *Temm. Man. d'Orn.* 1815, p. 193; *Naum. Vög. Deuts.* (1824) iv. p. 339, t. 109; *Flem. Brit. An.* p. 76; *Jenyns, Man. B. Vert. An.* p. 142; *Eyton, Cat. Brit. B.* p. 22; *Macgill. Hist. Brit. B.* i. p. 429; *Pr. Bonap. Geogr. Comp. List of B.* p. 38; *Keys. & Bl. Wirbelth. Eur.* p. 42; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 67; *G. R. Gray, Gen. of B.* ii. p. 388.
Crucirostra pinetorum, *Meyer, Vög. Liv. u. Esthl.* i. p. 317.
Crucirostra pytiopsittacus, *Brehm, Vög. Deuts.* p. 241.
Crucirostra subpytiopsittacus, *Brehm, Vög. Deuts.* p. 242.
Parrot Crossbill, *Selby, Brit. Orn.* i. p. 254; *Yarr. Brit. B.* 2 edit. ii. p. 24, fig.

*Gould, B. of Eur.* pl. 201.

(Shropshire, Epping Forest and Scotland).

### 3. Loxia leucoptera. The White-winged Crossbill.

Loxia leucoptera, *Gmel. S. N.* i. p. 844; *Jenyns, Man. B. Vert. An.* p. 143; *Eyton, Cat. Brit. B.* p. 22; *Macgill. Hist. Brit. B.* iii. p. 689; *Pr. Bonap. Geogr. Comp. List of B.* p. 38; *Keys. & Bl. Wirbelth. Eur.* p. 42.
Loxia falcirostra, *Lath. Ind. Orn.* i. p. 371; *Temp. Linn. Trans.* vii. p. 309; *Flem. Brit. An.* p. 76; *G. R. Gray, Gen. of B.* ii. p. 388.
Loxia curvirostra, pt. *Naum. Vög. Deuts.* iv. t. 110, f. 4.
Loxia bifasciata, *Nils.*
Crucirostra bifasciata, *Brehm, Vög. Deuts.* p. 244.
Loxia tænioptera, *Glog.*
Crucirostra tænioptera, *Brehm, Vög. Deuts.* p. 244.
The White-winged Crossbill, *Penn. Brit. Zool.* (1812) i. p. 428; *Yarr. Brit. B.* 2 edit. ii. p. 28, fig.; *Eyton, R. Brit. B.* p. 21, fig.
White-winged Grosbeak, *Mont. Orn. Dict. Suppl.*

*Wils. Am. Orn.* pl. 31, f. 3; *Bonap. Amer. Orn.* pl. 15, f. 3; *Gould, B. of Eur.* p. 203.

(Belfast, Worcester, Ipswich and Scotland).

# ORDER III. SCANSORES.

Accipitres, pt. *Mœh.* (1752).
Picæ, pt. *Linn.* (1735); *Mœhr.* (1752); *Lath.* (1790).
Plumipedes, pt. *Schæff.* (1774).
Fissipedes isodactyles, pt. *Schæff.* (1774).
Retipedes, pt. — Psittaces — Scutipedes, pt. — Negliges, pt. *Scop.* (1777).
Scansores, *Cuv.* (1795—1796) (1799—1800) (1817); *Temm.* (1815). *Keys. & Bl.* (1840).
Cuneirostres, pt.—Lævirostres, pt. *Cuv.* (1799—1800).
Psittacini—Serrati, pt.—Amphiboli—Sagittilingues, *Illiger* (1811).
Psittacini — Macroglossi — Barbati, pt. — Imberbi — Pteroglossi, *Vieill.* (1816).
Zygodactyli, *Temm.* (1820).
Rampicanti — Antilambani — Chenoramfi—Pogonofori — Agenii — Beloglossi, *Ranz.* (1823).
Scansores, *Vigors.* (1826).
Scandrices—Cuculatrices, *Macgill.* (1840).

## FAM. I. PICIDÆ.

### i. *PICINÆ.*

### 1. PICOIDES.

Picoides, *Lacep. Mem. de l'Instit.* (1800—1801).
Tridactylia, *Steph. Gen. Zool.* ix. p. 218, xiv. p. 173 (1815).
Apternus, *Swains. Fauna Bor. Amer.* ii. p. 302 (1831).

1. PICOIDES TRIDACTYLUS. The Northern Three-toed Woodpecker.

Picus tridactylus, *Linn. S. N.* i. p. 177; *Temm. Man. d'Orn.* 1815, p. 246; *Naum. Vög. Deuts.* (1826) v. p. 346, t. 137; *Jenyns, Man. B. Vert. An.* p. 151; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 50; *Eyton, Cat. Brit. B.* p. 66.
Picus hirsutus, *Vieill. Ois. d'Amer. Septr.* t. 124.
Dryobates tridactylus, *Boie, Isis* (1828), p. 326.
Tridactylia hirsuta, *Steph. Gen. Zool.* ix. p. 219.

Picus (Apternus) tridactylus, *Swains. Fauna Bor. Amer.* p. 311, pl. 56; *Keys. & Bl. Wirbelth. Eur.* p. 35.
Picoïdes alpinus, *Brehm, Vög. Deuts.* p. 194.
Picoïdes montanus, *Brehm, Vög. Deuts.* p. 194, t. xiv. f. 1.
Picoïdes tridactylus, *Kaup, Naturl. Syst.* p. 135; *G. R. Gray, Gen. of B.* ii. p. 434.
Apternus americanus, *Swains. Classif. of B.* ii. p. 306.
Apternus tridactylus (*Sw.*), *Pr. Bonap. Geogr. Comp. List of B.* p. 39.

*Edwards' Birds*, pl. 114; *Donovan, Brit. B.* vi. pl. 143; *Gould, B. of Eur.* pl. 232.

(North of Scotland).

## 2. PICUS.

Picus, *Linn. S. N.* (1735).
Dryobates, *Boie, Isis* (1826), p. 977.
Dendrocopus, *Koch, Baier. Zool.* i. p. (1816).
Dendrodromas, *Kaup, Naturl. Syst. der Eur. Thier.* p. 136 (1829)

### 1. Picus major. The Great Spotted Woodpecker.

Picus major, *Linn. S. N.* i. p. 176; *Temm. Man. d'Orn.* 1815, p. 240; *Leach, Syst. Cat. Mam. & B. B. M.* p. 12; *Naum. Vög. Deuts.* (1826) v. p. 298, t. 134; *Flem. Brit. An.* p. 91; *Jenyns, Man. B. Vert. An.* p. 150; *Eyton, Cat. Brit. B.* p. 29; *Pr. Bonap. Geogr. Comp. List of B.* p. 39; *Keys. & Bl. Wirbelth. Eur.* p. 35; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 50; *G. R. Gray, Gen. of B.* ii. p. 435.
Dendrocopus major, *Koch, Baier. Zool.* i. p. 72.
Dryobates major, *Boie, Isis* (1828), p. 325.
Picus cissa, *Pall. Zoogr.* i. p. 412.
Picus pinetorum, *Brehm, Vög. Deuts.* p. 187, t. xiii. f. 3.
Picus pityopicus, *Brehm, Vog. Deuts.* p. 188.
Picus frondium, *Brehm, Vög. Deuts.* p. 189.
Picus montanus, *Brehm, Vög. Deuts.* p. 189.
Picus pipra, *Macgill. Hist. Brit. B.* iii. p. 80.
Great Spotted Woodpecker, *Bew. Brit. B.* (1797) i. p. 118, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 319; *Selby, Brit. Orn.* i. p. 106; *Yarr. Brit. B.* 2 edit. ii. p. 148, fig.
Middle Spotted Woodpecker, *Bew. Brit. B.* (1797) i. p. 119; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 321, pl. xli. upp. fig.

*Pl. enl.* 196, 595; *Gould, B. of Eur.* pl. 229.

*a*. Wiltshire. Male. From Col. Montagu's collection.
*b*. Norfolk. Young. Presented by Lady Hanniford.
*c*. Wiltshire. Female. From Col. Montagu's collection.

### 2. Picus minor. The Lesser Spotted Woodpecker.

Picus minor, *Linn. S. N.* i. p. 176; *Temm. Man. d'Orn.* 1815, p. 243; *Leach, Syst. Cat. Mam. & B. B. M.* p. 12; *Naum. Vög. Deuts.* (1826) v. p. 334, t. 136, f. 3, 4; *Flem. Brit. An.* p. 92; *Brehm, Vög. Deuts.* p. 193; *Jenyns, Man. B. Vert. An.* p. 151; *Eyton, Cat. Brit. B.* p. 29; *Pr. Bonap. Geogr. Comp. List of B.* p. 39; *Keys. & Bl. Wirbelth. Eur.* p. 35; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 51; *G. R. Gray, Gen. of B.* ii. p. 435.
Dendrocopus minor, *Koch, Baier. Zool.* i. p. 73.
Dryobates minor, *Boie, Isis* (1826), p. 326.
Picus hortorum, *Brehm, Vög. Deuts.* p. 192.
Picus striatus, *Macgill. Hist. Brit. B.* iii. p. 86.
Picus pipra, *Pall. Zoogr.* i. p. 414.
Lesser Spotted Woodpecker, *Bew. Brit. B.* (1797) i. p. 120; *Mont. Orn. Dict.; Selby, Brit. Orn.* i. p. 107; *Yarr. Brit. B.* 2 edit. ii. p. 154, fig.
Least Spotted Woodpecker, *Penn. Brit. Zool.* (1812) i. p. 322, pl. xi. low. fig.

*Pl. enl.* 598, f. 1, 2; *Gould, B. of Eur.* pl. 231.

*a*. Surrey (Combe Wood). Female.
*b*. Surrey. Male.
*c*. Wiltshire. Male. From Col. Montagu's collection.
*d*. Sternum. England.

### 3. Picus villosus. The Hairy Woodpecker.

Picus villosus, *Linn. S. N.* i. p. 167; *Flem. Brit. An.* p. 92; *Jenyns, Man. B. Vert. An.* p. 151; *Eyton, Cat. Brit. B.* p. 66; *G. R. Gray, Gen. of B.* ii. p. 434.
Dryobates villosus, *Boie, Isis* (1828), p. 326.
Picus (Dendrocopus) villosus, *Swains. Fauna Bor. Amer.* ii. p. 305.
Hairy Woodpecker, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 324.

*Lewin, Brit. Birds*, pl. 50.

(Halifax, Yorkshire).

### 3. DRYOCOPUS.

Dryocopus, *Boie*, *Isis* (1826), p. 977.
Dendrocopus, *Brehm*, *Isis* (1828), p. 1274.
Carbonarius, *Kaup*, *Naturl. Syst. der Eur. Thier.* p. 131 (1829).
Dryotomus, *Swains. Fauna Bor. Amer. Birds*, p. 301 (1831).

#### 1. DRYOCOPUS MARTIUS. The Great Black Woodpecker.

Picus martius, *Linn. S. N.* i. p. 173; *Temm. Man. d'Orn.* 1815, p. 236; *Naum. Vög. Deuts.* (1826) v. p. 253, t. 131; *Flem. Brit. An.* p. 92; *Jenyns, Man. B. Vert. An.* p. 151; *Eyton, Cat. Brit. B.* p. 28; *Macgill. Hist. Brit. B.* iii. p. 77; *Schleg. Wirbelth. Eur.* p. 49,
Dryocopus martius, *Boie*, *Isis* (1826), p. 977; *Pr. Bonap. Geogr. Comp. List of B.* p. 39; *G. R. Gray, Gen. of B.* ii. p. 436.
Dendrocopus pinetorum, *Brehm, Vög. Deuts.* p. 185, t. xiii. f. 3.
Dendrocopus martius, *Brehm, Vög. Deuts.* p. 185.
Carbonarius martius, *Kaup, Naturl. Syst.* p. 131.
Dryotomus martius, *Swains. Fauna Bor. Amer.* p. 301.
Picus (Dryocopus) martius, *Keys. & Bl. Wirbelth. Eur.* p. 34.
Great Black Woodpecker, *Mont. Orn. Dict.; Penn. Brit. B.* (1812) i. p. 325; *Yarr. Brit. B.* 2 edit. ii. p. 132, fig.

*Pl. enl.* 596; *Gould, B. of Eur.* pl. 225.

(Devonshire, Dorsetshire, Battersea Fields, &c.).

### ii. *GECININÆ.*

### 1. GECINUS.

Gecinus, *Boie*, *Isis* (1831), p. 542.
Cornix, *Mœhring*, *Syst. Av.* p. 79 (1752).
Brachylophus, *Swains. Classif. of B.* ii. p. 308 (1831).
Colaptes, *Brehm*, *Isis* (1828), p. 1274.

#### 1. GECINUS VIRIDIS. The Green Woodpecker.

Picus viridis, *Linn. S. N.* i. p. 175; *Temm. Man. d'Orn.* 1815, p. 238; *Leach, Syst. Cat. Mam. & B. B. M.* p. 12; *Naum. Vög. Deuts.* (1826) v. p. 270, t. 132; *Flem. Brit. An.* p. 91; *Jenyns, Man. B. Vert. An.* p. 149; *Eyton, Cat. Brit. B.* p. 29; *Macgill. Hist. Brit. B.* iii. p. 91; *Pr. Bonap. Geogr. Comp. List of B.* p. 40; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 49.

Picus (Gecinus) viridis, *Keys. & Bl. Wirbelth. Eur.* p. 34.
Gecinus viridis, *Boie, Isis* (1831), p. 542; *Brehm, Vög. Deuts.* p. 198; *G. R. Gray, Gen. of B.* ii. p. 438.
Gecinus pinetorum, *Brehm, Vög. Deuts.* p. 197.
Gecinus frondium, *Brehm, Vög. Deuts.* p. 197.
Gecinus virescens, *Brehm, Vög. Deuts.* p. 199.
Brachylophus viridis, *Swains. Classif. of B.* ii. p. 308.
The Green Woodpecker, *Bew. Brit. B.* (1797) i. p. 116, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 315; *Selby, Brit. Orn.* i. p. 103; *Yarr. Brit. B.* 2 edit. ii. p. 137, fig.

*Pl. enl.* 371, 879; *Gould, B. of Eur.* pl. 226.

*a*. Kent. Male.
*b*. Devonshire. Female. From Col. Montagu's collection.
*c*. Great Britain. Male. Presented by J. Gould, Esq.
*d*. Cambridgeshire. Male. From Mr. J. Baker's collection.
*e*. Cambridgeshire. Female. From Mr. J. Baker's collection.
*f*. Skull. England.
*g*. Sternum. England.
*h*. Sternum. England. Presented by John Ray, Esq.

## iii. *Yuncinæ*.

### 1. YUNX.

Yunx, *Linn. S. N.* (1748).
Torquilla, *Briss. Orn.* iv. p. 3 (1760).
Cuculus (pars), *Linn. S. N.* (1735).
Jynx, *Linn. Faun. Suec.* (1746).

#### 1. Yunx torquilla. The Wryneck.

Yunx torquilla, *Linn. S. N.* i. p. 172; *Temm. Man. d'Orn.* 1815, p. 248; *Leach, Syst. Cat. Mam. & B. B. M.* p. 12; *Naum. Vög. Deuts.* (1826) v. p. 356, t. 138; *Flem. Brit. An.* p. 92; *Jenyns, Man. B. Vert. An.* p. 152; *Eyton, Cat. Brit. B.* p. 29; *Macgill. Hist. Brit. B.* iii. p. 110; *Pr. Bonap. Geogr. Comp. List of B.* p. 40; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 51; *G. R. Gray, Gen. of B.* ii. p. 448.
Jynx torquilla, *Linn. Faun. Suec.* p. 34; *Brehm, Vög. Deuts.* p. 202; *Keys. & Bl. Wirbelth. Eur.* p. 34.
Jynx arborea, *Brehm, Vög. Deuts.* p. 203.
Jynx punctata, *Brehm, Vög. Deuts.* p. 203.

The Wryneck, *Bew. Brit. B.* (1797) i. p. 111, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 312; *Selby, Brit. Orn.* i. p. 110; *Yarr. Brit. B.* 2 edit. ii. p. 158, fig.

*Gould, B. of Eur.* pl. 233.

*a*. Wiltshire. Male. From Col. Montagu's collection.
*b*. England. Presented by Mr. Scott.
*c*, *d*. Cambridgeshire. Young. Presented by Mr. J. Baker.
*e*, *f*. Two Sterna. England. Presented by T. Ingall, Esq.
*g*. Sternum. England. Presented by John Ray, Esq.

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## Fam. II. CUCULIDÆ.

### i. *Coccyzinæ*.

### 1. COCCYZUS.

Coccyzus, *Vieill. Analyse, &c.*, p. 28 (1816).
Coccyzon, *Gloger* (1827).
Cureus, *Boie, Isis* (1831), p. 541.
Erythrophrys, *Swains. Classif. of B.* ii. p. 322 (1837).
Coccygius, *Nitzsch, Pterylog.* p. 128 (1840).
Coccysus, *Savi.*

1. Coccyzus americanus. The Yellow-billed American Cuckow.

Cuculus americanus, *Linn. S. N.* i. p. 170; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 51.
Cuculus dominicus, *Linn. S. N.* i. p. 170.
Cuculus carolinensis, *Wils. Amer. Orn.* pl. 28, f. 1.
Cuculus cinerosus, *Temm. Man. d'Orn.* (1840) iii. p. 277.
Coccyzus americanus, *Jenyns, Man. B. Vert. An.* p. 155; *Eyton, Cat. Brit. B.* p. 30; *Macgill. Hist. Brit. B.* iii. p. 137; *G. R. Gray, Gen. of B.* ii. p. 457.
Cureus americanus, *Boie, Isis* (1831), p. 541.
Erythrophrys carolinensis, *Swains. Classif. of B.* ii. p. 322.
Erythrophrys americanus, *Pr. Bonap. Geogr. Comp. List of B.* p. 40.
Coccystes americanus, *Keys. & Bl. Wirbelth. Eur.* p. 34.
Coccyzus pyropterus, *Vieill. N. Dict. d'Hist. Nat.* viii. p. 270.

The Yellow-billed American Cuckoo, *Yarr. Brit. B.* 2 edit. ii. p. 204, fig.
Virginian Cuckoo, *Eyton, R. Brit. B.* p. 23, fig.
*Gould, B. of Eur.* pl. 242; *Wils. Amer. Orn.* pl. 28, f. 1.
*a*. Pembrokeshire. Presented by the Earl of Cawdor.

## ii. *Cuculinæ*.

### 1. CUCULUS.

Cuculus, *Linn. S. N.* (1735).
Chrysococcyx, *Boie, Isis* (1826), p. 977.
Chalcites, *Less. Tr. d'Ornith.* p. 152 (1831).
Lamphomorpha, *Vigors, Proc. Z. Soc.* (1831) p. 92.

### a. CUCULUS.

#### 1. Cuculus canorus. The Common Cuckoo.

Cuculus canorus, *Linn. S. N.* i. p. 168; *Temm. Man. d'Orn.* 1815, p. 232; *Leach, Syst. Cat. Mam. & B. B. M.* p. 12; *Naum. Vög. Deuts.* (1826) v. p. 196, t. 127—129; *Flem. Brit. An.* p. 90; *Brehm, Vög. Deuts.* p. 151; *Jenyns, Man. B. Vert. An.* p. 154; *Eyton, Cat. Brit. B.* p. 29; *Macgill. Hist. Brit. B.* iii. p. 109; *Pr. Bonap. Geogr. Comp. List of B.* p. 40; *Keys. & Bl. Wirbelth. Eur.* p. 34; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 51; *G. R. Gray, Gen. of B.* ii. p. 463.
Cuculus rufus, *Bechst. Ornith. Taschenb.* i. p. 84.
Cuculus hepaticus, *Lath. Ind. Orn.* i. p. 215; *Sparrm. Mus. Carls.* t. 55.
Cuculus borealis, *Pall. Zoogr.* i. p. 442.
Cuculus cinereus, *Brehm, Vög. Deuts.* p. 152.
The Cuckoo, *Bew. Brit. B.* (1797) i. p. 104.
Common Cuckow, *Mont. Orn. Dict.*
Common Cuckoo, *Penn. Brit. Zool.* (1812) i. p. 305, pl. xl. upper fig.; *Selby, Brit. Orn.* i. p. 98; *Yarr. Brit. B.* 2 edit. ii. p. 189, fig.
*Pl. enl.* 811; *Gould, B. of Eur.* pl. 240.
*a*. Devonshire. Male. From Col. Montagu's collection.
*b*. Devonshire. Female. From Col. Montagu's collection.
*c*. Great Britain. Female.

*d*. Surrey. Young.
*e*. Cornwall. Young (albino). From Mr. Bullock's collection.
*f*, *g*. Cambridgeshire. Very young. Presented by Mr. J. Baker.
*h*. Cambridgeshire. Young, male. From Mr. J. Baker's collection.
*i*. Cambridgeshire. Young, female. From Mr. J. Baker's collection.
*g*. Sternum (male). England. Presented by T. Ingall, Esq.

## 2. OXYLOPHUS.

Oxylophus, *Swains. Classif. of B.* ii. p. 322 (1837).
Edolius, *Less. Tr. d'Orn.* p. 147 (1831).
Coccystes (*Glog.*), *Keys. & Bl. Wirbelth. Eur.* p. 34 (1840).

### 1. OXYLOPHUS GLANDARIUS. The Great Spotted Cuckow.

Cuculus glandarius, *Linn. S. N.* i. p. 169; *Naum. Vög. Deuts.* (1826) v. p. 237, t. 130; *Brehm, Vög. Deuts.* p. 154; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 41.
Coccyzus pisanus, *Vieill. Encyc. Meth.* p. 1349.
Cuculus macrourus, *Brehm, Vög. Deuts.* p. 153.
Cuculus gracilis, *Brehm, Vög. Deuts.* p. 154.
Cuculus pisanus, *Gmel. S. N.* i. p. 416; *Vieill. Faun. Franc.* i. p. 60, t. 29, f. 1, 2.
Coccysus glandarius, *Savi, Ornit. Tosc* i. p. 154.
Oxylophus glandarius, *Pr. Bonap. Geogr. Comp. List of B.* 40; *G. R. Gray, Gen. of B.* ii. p. 464.
Coccystes glandarius, *Keys. & Bl. Wirbelth. Eur.* p. 34.
The Great Spotted Cuckow, *Yarr. Brit. B.* 2 edit. ii. p. 200, fig.
*Edwards, Birds*, pl. 57; *Pl. col.* 414; *Gould, B. of Eur.* pl. 241.
(Clifden, County of Galway).

# ORDER IV. COLUMBÆ.

Passeres, pt. *Linn.* (1735).
Gallinæ, pt.—Brachypterœ, pt. *Mœhr.* (1752).
Nudipedes, pt.—Plumipedes, pt. *Schœff.* (1774).
Fissipedes tetradactyles, pt. — F. anisodactyles, conico-protensirostres, pt. *Schœff.* (1774).
Retipedes, pt.—Gallinacees, pt. *Scop.* (1777).
Columbæ—Struthiones, pt. *Lath.* (1790).
Gallinæ, pt. *Cuv.* (1795—1796).
Gallinæ, pt.—Alectrides, pt. *Cuv.* (1799—1800).
Columbini—Inepti, *Illig.* (1811).
Columba, *Temm.* (1815).
Columbini, *Vieill.* (1816).
Gallinacees, pt. *Cuv.* (1817).
Columba—Inertes, pt. *Temm.* (1820).
Giranti, *Ranz.* (1823).
Rasores, pt. *Vigors* (1826).
Gemitrices, *Macgill.* (1840).
Gallinaceæ, pt. *Keys. & Bl.* (1840).

## FAM. I. COLUMBIDÆ.

### i. *COLUMBINÆ.*

### 1. COLUMBA.

Columba, *Linn. S. N.* (1735).
Palumbus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 107 (1829).

### a. PALUMBUS.

#### 1. COLUMBA PALUMBUS. The Ring Dove.

Columba palumbus, *Linn. S. N.* i. p. 282; *Temm. Man. d'Orn.* 1815, p. 276; *Naum. Vög. Deuts.* (1833) vi. p. 168, t. 149; *Flem. Brit. An.* p. 47; *Jenyns, Man. B. Vert. An.* p. 161; *Eyton, Cat. Brit. B.* p. 31; *Pr. Bonap. Geogr. Comp. Eur. and Amer. Birds*, p. 41; *Macgill. Hist. Brit. B.* i. p. 259; *Keys. & Bl. Wirbelth. Eur.* p. 62; *G. R. Gray, Gen. of B.* ii. p. 470.

Columba torquata, *Leach, Syst. Cat. Mam. & B. B. M.* p. 26.
Palumbus ———, *Kaup, Naturl. Syst.* p. 107.
Ring Dove, *Bew. Brit. B.* (1797) i. p. 270, fig.; *Penn. Brit. Zool.* (1812) i. p. 392; *Mont. Orn. Dict.; Selby, Brit. Orn.* i. p. 288; *Yarr. Brit. B.* 2 edit. ii. p. 277, fig.

*Pl. enl.* 316; *Temm. Pig.* t. 2; *Gould, B. of Eur.* pl. 243.

*a.* Wiltshire. From Col. Montagu's collection.
*b.* Saffron Walden. From Mr. J. Clark's collection.
*c, d.* Cambridgeshire. Young. Presented by Mr. J. Baker.
*e.* Cambridgeshire. Male. From Mr. J. Baker's collection.
*f.* Sternum. England. Presented by John Ray, Esq.

## b. Columba.

### 2. Columba ænas. The Stock Dove.

Columba ænas, *Gmel. S. N.* i. p. 769; *Temm. Man. d'Orn.* 1815, p. 277; *Leach, Syst. Cat. Mam. & B. B. M.* p. 26; *Naum. Vög. Deuts.* (1833) vi. p. 215, t. 151; *Flem. Brit. An.* p. 47; *Jenyns, Man. B. Vert. An.* p. 161; *Eyton, Cat. Brit. B.* p. 32; *Pr. Bonap. Geogr. Comp. List of B.* p. 41; *Macgill. Hist. Brit. B.* i. p. 287; *Keys. & Bl. Wirbelth. Eur.* p. 62; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 73; *G. R. Gray, Gen. of B.* ii. p. 470.
Wood Pigeon, *Eyton, Hist. R. Brit. B.* p. 27, fig.
Stock Dove, *Penn. Brit. Zool.* (1812) i. p. 390; *Selby, Brit. Orn.* i. p. 291; *Yarr. Brit. B.* 2 edit. ii. p. 283, fig.

*Pl. enl.* 466; *Temm. Pig.* t. 11; *Gould, B. of Eur.* pl. 244.

*a.* Great Britain.
*b.* Great Britain. From Mr. Turner's collection.
*c.* Cambridgeshire. Presented by Mr. J. Baker.
*d.* Sternum. England. Presented by T. Ingall, Esq.
*e.* Sternum. England. Presented by John Ray, Esq.

### 3. Columba livia. The Rock Dove.

Columba livia, *Briss. Orn.* i. p. 82; *Temm. Man. d'Orn.* 1815, p. 278; *Naum. Vög. Deuts.* (1833) vi. p. 186, t. 150; *Jenyns, Man. B. Vert. An.* p. 162; *Eyton, Cat. Brit. B.* p. 32; *Macgill. Hist. Brit. B.* i. p. 268; *Keys. & Bl. Wirbelth. Eur.* p. 62; *G. R. Gray, Gen. of B.* ii. p. 470.
Columba domestica, *Gmel. S. N.* i. p. 769.
Columba ænas, *Linn. S. N.* i. p. 279.

The Wild Pigeon, *Bew. Brit. B.* (1797) i. p. 267, fig.
Rock Dove, *Mont. Orn. Dict.; Selby, Brit. Orn.* i. p. 292; *Yarr. Brit. B.* 2 edit. ii. p. 288, fig.
Common Pigeon, *Penn. Brit. Zool.* (1812) i. p. 383, pl. 49, low. fig.

*Pl. enl.* 510; *Temm. Pig.* t. 12; *Gould, B. of Eur.* pl. 245.

*a*, *b*. Carmarthen. From Col. Montagu's collection.
*c*, *d*. Cambridgeshire. Presented by Mr. J. Baker.
*e*. Varieties. From Mr. Turner's collection.

## 2. ECTOPISTES.

Ectopistes, *Swains. Zool. Journ.* iii. p. 362 (1827).

### 1. Ectopistes migratorius. The Passenger Pigeon.

Columba migratoria, *Linn. S. N.* i. p. 285; *Jenyns, Man. B. Vert. An.* p. 163; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 74.
Columba canadensis, *Linn. S. N.* i. p. 284.
Ectopistes migratorius, *Swains. Zool. Journ.* 1827; *Eyton, Cat. Brit. B.* p. 33; *Keys. & Bl. Wirbelth. Eur.* p. 62; *G. R. Gray, Gen. of B.* ii. p. 471.
Passenger Pigeon, *Flem. Brit. An.* p. 145; *Yarr. Brit. B.* 2 edit. ii. p. 304, fig.
Migratory Pigeon, *Eyton, Hist. R. Brit. B.* p. 30, fig.

*Temm. Pig.* t. 48, 49; *Wils. Amer. Orn.* pl. 44, f. 1.

(Fifeshire).

## 3. TURTUR.

Turtur, *Selby, Brit. B.* (1835).
Peristera, *Boie, Isis* (1828), p. 327.

### 1. Turtur auritus. The Turtle Dove.

Columba turtur, *Linn. S. N.* i. p. 284; *Temm. Man. d'Orn.* 1815, p. 279; *Leach, Syst. Cat. Mam. & B. B. M.* p. 26; *Boie, Isis* (1822), p. 558; *Flem. Brit. An.* p. 47; *Naum. Vög. Deuts.* (1833) vi. p. 233, pl. 152; *Jenyns, Man. B. Vert. An.* p. 162; *Macgill. Hist. Brit. B.* i. p. 291; *Keys. & Bl. Wirbelth. Eur.* p. 62; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 74.

Turtur auritus (*Ray*), *G. R. Gray*, *Gen. of B.* ii. p. 472.
Peristera turtur, *Boie*, *Isis* (1828), p. 327.
Turtur migratorius, *Selby*, *Brit. B.*
Turtur vulgaris, *Eyton*, *Cat. Brit. B.* p. 32.
Turtle Dove, *Bew. Brit. B.* (1797) i. p. 272, fig.; *Mont. Orn. Dict.*; *Selby*, *Brit. Orn.* i. p. 294; *Yarr. Brit. B.* 2 edit. ii. p. 299, fig.
Turtle, *Penn. Brit. Zool.* (1812) i. p. 394, pl. 49, upp. fig.
*Pl. enl.* 394; *Temm. Pig.* t. 42; *Gould*, *B. of Eur.* pl. 246.

*a*. Devonshire. From Col. Montagu's collection.
*b*. Cambridgeshire. Young. Presented by Mr. J. Baker.
*c*. Cambridgeshire. Male. From Mr. J. Baker's collection.
*d*. Cambridgeshire. Female. From Mr. J. Baker's collection.
*e*. Sternum. England. Presented by John Ray, Esq.
*f*. Skull. England. Presented by John Ray, Esq.

# ORDER V. GALLINÆ.

Gallinæ, *Linn.* (1735); *Mœhr.* (1752); *Lath.* (1790); *Cuv.* (1795—1796), (1799—1800); *Temm.* (1815); *Ranz.* (1823).
Plumipedes, pt. *Schæff.* (1774).
Fissipedes anisodactyles, conico-incurvirostres, *Schæff.* (1774).
Retipedes, pt.—Gallinacees, *Scop.* (1777).
Grallæ, pt. *Lath.* (1790).
Alectrides, *Cuv.* (1799—1800).
Rasores — Gallinacei — Epollicati — Crypturi — Grallatores, pt.—Vaginati—*Illig.* (1811).
Gallinacei—G. nudipedes—G. plumipedes—Alectrides—Coleoramphi, *Vieill.* (1816).
Gallinacees, *Cuv.* (1817).
Gallinæ—Palmipedes, pt. *Temm.* (1820).
Razzolanti *Ranz.* (1823).
Rasores, *Vigors* (1826).
Radrices, *Macgill.* (1840).
Gallinaceæ, *Keys. & Bl.* (1840).

## FAM. I. PHASIANIDÆ.

### i. *PAVONINÆ.*

#### 1. PAVO.

Pavo, *Linn. S. N.* (1735).

1. PAVO CRISTATUS. The Crested Peacock.

Pavo cristatus, *Linn. S. N.* i. p. 267; *Flem. Brit. An.* p. 45; *Jenyns, Man. B. Vert. An.* p. 164; *Keys. & Bl. Wirbelth. Eur.* p. 65.
Pavo cristatus, domesticus, *Temm. Pig. & Gall.* ii. p. 35, iii. p. 651.
The Peacock, *Bew. Brit. B.* (1797) i. p. 289, fig.; *Penn. Brit. Zool.* (1812) i. p. 369.

*Pl. enl.* 433, 434.

*a*. Great Britain. Male.
*b*. Great Britain. Male. Presented by Dr. Dowler.
*c*. England. Male. Presented by Master James Edward Harris.
*d*. England. Female. Presented by Master James Edward Harris.

## ii. *Phasianinæ*.

### 1. PHASIANUS.

Phasianus, *Linn. S. N.* (1748).
Tetrao (pars), *Linn. S. N.* (1735).
Syrmaticus, *Wagl. Isis* (1832), p. 1229).

### a. Phasianus.

#### 1. Phasianus colchicus. The Common Pheasant.

Phasianus colchicus, *Linn. S. N.* i. p. 271; *Temm. Man. d'Orn.* 1815, p. 282; *Leach, Syst. Cat. Mam. & B. B. M.* p. 26; *Flem. Brit. An.* p. 46; *Naum. Vög. Deuts.* (1833) vi. p. 433, t. 162; *Jenyns, Man. B. Vert. An.* p. 166; *Pr. Bonap. Geogr. Comp. List of B.* p. 42; *Macgill. Hist. Brit. B.* i. p. 144; *Keys. & Bl. Wirbelth. Eur.* p. 64; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 74; *G. R. Gray, Gen. of B.* iii. p. 496.

The Pheasant, *Bew. Brit. B.* (1797) i. p. 282, fig.; *Penn. Brit. Zool.* (1812), i. p. 372.

Common Pheasant, *Mont. Orn. Dict. & Suppl.; Selby, Brit. Orn.* i. p. 298; *Yarr. Brit. B.* 2 edit. ii. p. 310, fig.

Var. Bohemian Pheasant, *Jenyns, Man. B. Vert. An.* p. 167; *Yarr. Brit. B.* 2 edit. ii. p. 321.

Var. Phasianus torquatus, *Gmel. S. N.* i. p. 742; *β.*? *Flem. Brit. An.* p. 46; *Jenyns, Man. B. Vert. An.* p. 167.

Ring or Ring-necked Pheasant, *Mont. Orn. Dict.*

Common Pheasant, variety of, *Yarr. Brit. B.* 2 edit. ii. p. 321.

*Pl. enl.* 121, 122; *Gould, B. of Eur.* pl. 247.

*a*. Norfolk. Male.
*b*, *c*. England. Male.
*d*, *e*. England. Male. Presented by Thomas Hodges, Esq.
*f*. Kent. Presented by the Rev. T. Coble.
*g*, *h*. England.
*i*. England. Presented by Thomas Hodges, Esq.
*j*. Hampshire. Male. Presented by G. B. Tyndale, Esq.
*k*. Hampshire. Female. Presented by G. B. Tyndale, Esq.
*l*. England. Mottled.

*m*. England. Albino.
*n*, *o*. Cambridgeshire. Chicks. From Mr. J. Clark's collection.
*p*. Great Britain. Bohemian variety. From Mr. Warwick's collection.
*q*. Great Britain. Hybrid with Spanish Fowl. From Mr. Bartlett's colletion.
*r*. Sternum.
*s*. Sternum. England. Presented by John Ray, Esq.

## 2. GALLUS.

Gallus, *Linn. S. N.* (1744).
Gallina, *Linn.* (1735).

### 1. Gallus Bankiva, var.

Gallus domesticus, *Temm. Pig. & Gal.* ii. p. 92, iii. p. 654; *Flem. Brit. An.* p. 46; *Jenyns, Man. B. Vert. An.* p. 165.
Phasianus gallus, *Linn. S. N.* i. p. 270.
Gallus Bankiva, *G. R. Gray, Gen. of B.* iii. p. 499.
Gallus gallinaceus, *Pall. Zoogr.* ii. p. 88.
The Domestic Cock, *Bew. Brit. B.* (1797) i. p. 276, fig.
*Pl. enl.* 1.

Var. *β. cristatus.* Crested Cock.
*γ. pusillus.* Bantam Cock.
*δ. pumilio.* Dwarf Cock.
*ε. pentadactylus.* Dorking Cock.

*a*. Cambridgeshire. Male. Presented by Mr. J. Baker.
*b*. Cambridgeshire. Male Bantam. Presented by Mr. J. Baker.
*c*, *d*. Female Bantams. Presented by Mr. J. Baker.
*e*, *f*. Cambridgeshire. Chicks, Bantam. Presented by Mr. J. Baker.
*g*. Cambridgeshire. Chicks. Presented by Mr. J. Baker.
*h*. Great Britain. Male. Presented by Mr. J. Baker.
*i*. Male. Presented by Mr. J. Baker.
*j*. Sussex. Male. Presented by Mrs. C. Tooke.
*k*, *l*. Great Britain. Presented by Mr. J. Baker.

## iii. *Meleagrinæ.*

### 1. MELEAGRIS.

Meleagris, *Linn. S. N.* (1735).
Gallopavo, *Briss. Orn.* i. p. 158 (1760).
Cenchramus, *Mœhring, Av. Gen.* p. 51 (1752).

#### 1. Meleagris gallopavo. The Turkey.

Meleagris gallopavo, *Linn. S. N.* i. p. 268; *Flem. Brit. An.* p. 45; *Jenyns, Man. B. Vert. An.* p. 164; *Keys. & Bl. Wirbelth. Eur.* p. 65; *G. R. Gray, Gen. of B.* iii. p. 500.
Meleagris fera, *Vieill. N. Dict. d'Hist. Nat.* ix. p. 447.
The Turkey, *Bew. Brit. B.* (1797) i. p. 286, fig.
Turky, *Penn. Brit. Zool.* (1812) i. p. 374.

*Pl. enl.* 97.

*a, b.* Kent. Variety (white). Presented by J. P. Atkins, Esq.
*c.* Cambridgeshire. Young. Presented by Mr. J. Baker.
*d, e.* Cambridgeshire. Chicks. Presented by Mr. J. Baker.
*f.* Skull. Presented by John Ray, Esq.

### 2. NUMIDA.

Numida, *Linn. S. N.* (1766).
Meleagris, *Mœhr. Av. Gen.* p. 52 (1752).
Guttera, *Wagl. Isis* (1832), p. 1225.
Acryllium, *G. R. Gray, List of Gen. of B.* (1840) p. 61.

#### a. Numidæ.

##### 1. Numida meleagris. The Pintado.

Numida meleagris, *Linn. S. N.* i. p. 273; *Flem. Brit. An.* p. 46; *Jenyns, Man. B. Vert. An.* p. 168; *Keys. & Bl. Wirbelth. Eur.* p. 65; *G. R. Gray, Gen. of B.* iii. p. 501.
The Pintado, *Bew. Brit. B.* (1797), i. p. 293, fig.

*Pl. enl.* 108.

*a.* Cambridgeshire. White variety. From Mr. J. Clark's collection.
*b.* Cambridgeshire. Chicks. Presented by Mr. J. Baker.

ASIATIC

## Fam. II. TETRAONIDÆ.

### i. *Perdicinæ.*

### 1. CACCABIS.

Caccabis, *Kaup, Naturl. Syst. der Eur. Thier.* p. 183 (1829).
Chacura, *Hodgs. Madr. Journ.* (1837) p. 305.
Pyctes, *Hodgs. Gray's Zool. Misc.* p. 85 (1844).
Alectoris, *Kaup, Naturl. Syst. der Eur. Thier.* p. 180 (1829).

#### a. Caccabis.

1. Caccabis rufa. The Red-legged Partridge.

Tetrao rufus, *Linn. S. N.* i. p. 276.
Perdix rufa, *Lath. Ind. Orn.* ii. 647, β.; *Flem. Brit. An.* p. 45.
Perdix rubra, *Briss. Orn.* i. p. 236; *Temm. Man. d'Orn.* 1815, p. 306; *Naum. Vög. Deuts.* (1833) vi. p. 563, t. 165; *Jenyns, Man. B. Vert. An.* p. 172; *Pr. Bonap. Geogr. Comp. List of B.* p. 43; *Macgill. Hist. Brit. B.* i. p. 215; *Keys. & Bl. Wirbelth. Eur.* p. 65; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 77.
Caccabis rufa, *G. R. Gray, Gen. of B.* iii. p. 508.
Guernsey Partridge, *Mont. Orn. Dict.*
Red-legged Partridge, *Yarr. Brit. B.* 2 edit. ii. p. 381, fig.
*Pl. enl.* 150; *Gould, B. of Eur.* pl. 260.

*a.* Royston, Herts. Male. From Mr. J. Baker's collection.
*b.* (Great Britain), Leadenhall Market. Male. From Mr. J. Baker's collection.
*c.* Leadenhall Market. Female. From Mr. J. Baker's collection.

#### b. Alectoris.

2. Caccabis petrosa. The Barbary Partridge.

Tetrao petrosus, *Gmel. S. N.* i. p. 758.
Perdix petrosa, *Lath. Ind. Orn.* p. 770; *Temm. Man. d'Orn.* 1815, p. 308; *Keys. & Bl. Wirbelth. Eur.* p. 65.
Caccabis petrosa, *G. R. Gray, Gen. of B.* iii. p. 508.
Alectoris petrosa, *Kaup, Naturl. Syst.* p. 180.
The Barbary Partridge, *Yarr. Brit. B.* 2 edit. ii. p. 387, fig.
*Edw. Birds*, pl. 70.
(Leicestershire and Oxfordshire).

## 2. PERDIX.

Perdix, *Briss. Ornith.* i. p. 219 (1760).
Starna, *Pr. Bonap. Geogr. Comp. List of B.* p. 43 (1838).
Tetrao (pars), *Linn. S. N.* (1735).

### 1. Perdix cinerea. The Common Partridge.

Tetrao perdix, *Linn. S. N.* i. p. 276.
Perdix cinerea, *Lath. Ind. Orn.* ii. p. 645; *Temm. Man. d'Orn.* 1815, p. 309; *Flem. Brit. An.* p. 44; *Naum. Vög. Deuts.* (1833) vi. p. 477, t. 163; *Jenyns, Man. B. Vert. An.* p. 172; *Macgill. Hist. Brit. B.* i. p. 218; *Brehm, Vög. Deuts.* p. 524; *G. R. Gray, Gen. of B.* iii. p. 506.
Perdix vulgaris, *Leach, Syst. Cat. Mam. & B. B. M.* p. 27.
Starna cinerea, *Pr. Bonap. Geogr. Comp. List of B.* p. 43; *Keys. & Bl. Wirbelth. Eur.* p. 65.
Perdix cineracea, *Brehm, Vög. Deuts.* p. 525.
The Partridge, *Bew. Brit. B.* (1797) i. p. 305, fig.
Common Partridge, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 363; *Selby, Brit. Orn.* i. p. 314; *Yarr. Brit. B.* 2 edit. ii. p. 370, fig.

*Pl. enl.* 27; *Gould, B. of Eur.* pl. 262.

*a*. Somersetshire. Male.
*b*. Devonshire. Male.
*c*. Cambridgeshire. Male. Presented by Mr. J. Baker.
*d*. Cambridgeshire. Female and chicks. Presented by Mr. J. Baker.
*e*. Kent. Pale variety. Presented by J. Planta, Esq.
*f*—*h*. Cambridgeshire. Young. Presented by Mr. J. Baker.
*i*, *k*. England. Young.
*l*, *m*. Cambridgeshire. Chicks. Presented by Mr. J. Baker.
*n*. Sternum. England.

## 3. COTURNIX.

Coturnix, *Mœhr. Av. Gen.* p. 54 (1752).
Tetrao (pars), *Linn. S. N.* (1735).
Ortygion, *Keys. & Bl. Wirbelth. Eur.* p. 66 (1840).

1. COTURNIX COMMUNIS. The Common Quail.

Tetrao coturnix, *Linn. S. N.* i. p. 278.
Perdix coturnix, *Lath. Ind. Orn.* ii. p. 651; *Leach, Syst. Cat. Mam. & B. B. M.* p. 27; *Naum. Vög. Deuts.* (1833) vi. p. 575, t. 166; *Jenyns, Man. B. Vert. Anim.* p. 174.
Coturnix communis, *Bonn. Encyc. Meth.* p. 217; *G. R. Gray, Gen. of B.* iii. p. 507.
Coturnix dactylisonans, *Meyer, Vög. Liv, u. Esthlands.* p. 167; *Temm. Man. d'Orn.* (1815), p. 311; *Steph. Gen. Zool.* xi. p. 361; *Macgill. Brit. B.* i. p. 233; *Pr. Bonap. Geogr. Comp. List of B.* p. 43.
Coturnix vulgaris, *Flem. Brit. Anim.* p. 45; *Eyton, Cat. Brit. B.* p. 31; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 78.
Ortygion coturnix, *Keys. & Bl. Wirbelth. Eur.* p. 66.
Coturnix major (*Briss.*) *Brehm, Vög. Deuts.* p. 527, t. 26, f. 4.
Coturnix media, *Brehm, Vög. Deuts.* p. 528.
Coturnix minor, *Brehm, Vög. Deuts.* p. 529.
The Quail, *Bew. Brit. B.* (1797) ii. p. 308, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) i. p. 366.
Common Quail, *Bew. Brit. B.* ii. p. 400, fig.
Common Quail, *Selby, Brit. Orn.* i. p. 318.
*Pl. enl.* 170; *Gould, B. of Eur.* pl. 263.

*a*. Somersetshire. From Col. Montagu's collection.
*b*. Cambridgeshire. Young. Presented by Mr. J. Baker.
*c*. Cambridgeshire. Chicks. Presented by Mr. J. Baker.
*d*. Sternum. England. Presented by John Ray, Esq.

## ii. *TURNICINÆ*.

### 1. TURNIX.

Turnix, *Bonn. Encycl. Meth.* p. 5 (1790).
Hemipodius, *Reinw. Temm. Pig. & Gall.* iii. p. 753 (1815).
Tridactylus, *Lacep, Mem. de l'Instit.* (1800—1801).
Ortygis, *Ill. Prodr. Mam.* p. 242. (1811).
Ortygodes, *Vicill. Analyse, &c.* p. 52 (1816).

1. TURNIX AFRICANUS. The Andalusian Quail.

Turnix africanus, *Desfont. Mem. de l'Acad. des Sci.* (1789) p. 500; *G. R. Gray, Gen. of B.* iii. p. 510.

Tetrao andalusicus, *Gmel. S. N.* i. p. 766.
Turnix andalusica, *Bonn. Ency. Meth.* 7; *Savi, Onit. Tosc.* i. p 205.
Perdix andalusicus, *Lath. Ind. Orn.* p. 656.
Hemipodius andalusicus, *Boie, Isis*, 1822, p. 558.
Hemipodius tachydromus, *Temm. Man. d'Orn.* (1815) p. 314.
Ortygis andalusica, *Keys. & Bl. Wirbelth. Eur.* p. 66.
Andalusian Quail, *Newm. Zool.* 1845, p. 872 & 989, fig.
The Andalusian Hemipode, *Yarr. Brit. B.* 2 edit. ii. p. 408, fig, *Gould, B. of Eur.* pl. 264.

(Oxfordshire).

## iii. *Odontophorinæ.*

### 1. ORTYX.

Ortyx, *Steph. Gen. Zool.* xi. p. 376 (1819).
Colinus, *Less.* (183 ?).
Ortygia, *Boie, Isis*, 1826, p. 978.
Colinia, *Nutt.* (18 ?).
Eupsychortyx, *Gould, Monogr. Odont.* (1845).
Philortyx, *Gould, Monogr. Odont.* (1845).

### a. Ortyx.

#### 1. Ortyx virginiana. The Virginian Colin.

Tetrao virginianus, *Linn. S. N.* i. p. 277.
Tetrao marilandus, *Linn. S. N.* i. p. 277.
Perdix virginiana, *Lath. Ind. Orn.* p. 650; *Jenyns, Man. B. Vert. Anim.* p. 173.
Perdix borealis, *Temm. Pig. et Gall.* iii. p. 436, 735.
Ortyx borealis, *Steph. Gen. Zool.* xi. p. 377.
Ortyx virginiana, *Macgill. Brit. B.* i. p. 228; *Keys. & Bl. Wirbelth. Europ.* p. 66; *G. R. Gray, Gen. of B.* iii. p. 513.
Ortygia marilandica, *Boie, Isis*, 1828, p. 326.
American Partridge, *Mont. Orn. Dict. Suppl.* (Grosbeak).
The Virginian Colin, *Yarr. Brit. B.* 2 edit. ii. p. 391, fig.

(Near Mansfield, &c.).

## iv. *TETRAONINÆ.*

### 1. TETRAO.

Tetrao, *Linn.* pt. *S. N.* (1735).
Urogallus, *Scop. Introd. ad Hist. Nat. &c.* (1777).
Grygallus, *Gesn.*
Lyrurus, *Swains. Fauna Bor. Amer.* ii. p. 497 (1831).
Centrocercus *Swains. Fauna Bor. Amer.* ii. p. 496 (1831).

#### a. UROGALLUS.

##### 1. TETRAO UROGALLUS. The Wood Grous.

Tetrao urogallus, *Linn. S. N.* i. p. 273; *Temm. Man. d'Orn.* (1815) i. p. 285; *Brehm, Vög. Deuts.* p. 501; *Naum. Vög. Deuts.* (1833) vi. p. 277, t. 154, 155; *Jenyns, Man. B. Vert. Anim.* p. 168; *Macgill. Brit. B.* i. p. 138; *Keys. & Bl. Wirbelth. Europ.* p. 64; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 75; *G. R. Gray, Gen. of B.* iii. p. 516.
Tetrao major, *Brehm, Vög. Deuts.* p. 503.
Tetrao crassirostris, *Brehm, Vög. Deuts.* p. 504.
Tetrao maculatus, *Brehm, Vög. Deuts.* p. 504.
Urogallus ———, *Kaup, Naturl. Syst.* p. 180.
Wood Grous, *Mont. Orn. Dict. & Suppl.; Penn. Brit. Zool.* 1812, i. p. 348, pl. 44, 45.
The Capercaillie, *Yarr. Brit. B.* 2 edit. ii. p. 323, fig.
*Pl. enl.* 73, 74; *Gould, B. of Eur.* pl. 248.

α. Scotland. Female From Col. Montagu's collection.

##### ?2. TETRAO HYBRIDUS. The Spurious Grous.

Tetrao medius, *Meyer, Mag. der Gesellsch. Naturf. Fr.* v. 3; *Quart.* 1811; *Temm. Man. d'Orn.* 1815, p. 287; *Naum. Vög. Deuts.* (1833) vi. p. 304, t. 156; *Jenyns, Man. B. Vert. Anim.* p. 169; *Brehm, Vög. Deuts.* p. 506; *Yarr. Brit. B.* 2 edit. ii. p.
Tetrao intermedius, *Langsd. Mem. de l'Acad. de Petersb.* iii. (1811) p. 286; *Keys. & Bl. Wirbelth. Eur.* p. 64.

Tetrao hybridus, *Linn. Faun. Suec.* p. 72; *Sparrm. Mus. Carls.* t. 15; *Penn. Brit. Zool.* (1812) i. p. 355; *Flem. Brit. An.* p. 44; *G. R. Gray, Gen. of B.* iii. p. 516.
Hybridus Grous, *Mont. Ornith. Dict.*
(Scotland).

## b. LYRURUS.

### 3. TETRAO TETRIX. The Black Grouse.

Tetrao tetrix, *Linn. S. N.* i. p. 274; *Temm. Man. d'Orn.* 1815, p. 289; *Leach, Syst. Cat. Mam. & B. B. M.* p. 27; *Flem. Brit. Anim.* p. 43; *Brehm, Vög. Deuts.* p. 510; *Naum. Vög. Deuts.* (1833) vi. p. 324, t. 157; *Jenyns, Man. B. Vert. Anim.* p. 169; *Eyton, Cat. Brit. B.* p. 30; *Macgill. Brit. B.* p. 145; *Keys. & Bl. Wirbelth. Eur.* p. 64; *G. R. Gray, Gen. of B.* iii. p. 516.
Urogallus tetrix, *Kaup, Naturl. Syst.* p. 180.
Tetrao juniperorum, *Brehm, Vög. Deuts.* p. 509.
Tetrao rupestris, *Brehm, Vög. Deuts.* p. 513.
Lyrurus tetrix, *Swains. Fauna Bor. Amer.* p. 497.
The Black Grous, *Bew. Brit. B.* (1797) i. p. 298, fig.
Black Grous, *Mont. Ornith. Dict.; Penn. Brit. Zool.* (1812) i. p. 352, pl. 46; *Selby, Brit. Ornith.* i. p. 304.
*Pl. enl.* 172, 175; *Gould, B. of Eur.* pl.

*a.* Devonshire. Male. From Col. Montagu's collection.
*b.* Hybrid between the *Black Grous* and *Pheasant.* Presented by His Grace the Duke of Northumberland, K.G., &c.
*c.* Sternum. England. Presented by John Ray, Esq.

## 2. LAGOPUS.

Lagopus, *Briss. Orn.* i. p. 181 (1760).
Oreias, *Kaup, Naturl. Syst. der Eur. Thier.* p. 177 (1829).
Attagen, *Kaup, Naturl. Syst. der Eur. Thier.* p. 170 (1829).

## a. OREIAS.

### 1. LAGOPUS SCOTICUS. The Red Grouse.

Tetrao lagopus, *Gmel. Syst. N.* ii. p. 750, var. γ.
Tetrao scoticus, *Lath. Ind. Orn.* ii. p. 641; *Jenyns, Man. B. Vert. Anim.* p. 170.

Lagopus scoticus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 27; *Vieill. N. Dict. d'Hist. Nat.* xvii. p. 206; *Steph. Gen. Zool.* xi. p. 293; *Flem. Brit. Zool.* p. 43; *Eyton, Cat. Brit. B.* p. 30; *Pr. Bonap. Geogr. Comp. List of B.* p. 44; *Macgill. Brit. B.* i. p. 169; *Keys. & Bl. Wirbelth. Eur.* p. 63; *G. R. Gray, Gen. of B.* iii. p. 517.

Tetrao saliceti, var., *Temm. Man. d'Orn.* 1815, p. 296.

Tetrao saliceti, scoticus, *Schleg. Rev. Crit. des Ois. d'Eur.* p. 76.

Oreias scoticus, *Kaup, Naturl. Syst.* p. 177.

Red-Grous, *Bew. Brit. B.* (1797) i. p. 301, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1813) i. p. 356; *Selby, Brit. Orn.* i. p. 307.

The Red Grouse, *Yarr. Brit. B.* 2 edit. ii. p. 351, fig.

*Gould, B. of Eur.* pl. 252.

*a.* Scotland. Male. From Col. Montagu's collection.
*b.* Scotland. Female. From Col. Montagu's collection.
*c.* Leadenhall Market. Male. From Mr. J. Baker's collection.
*d.* Leadenhall Market. Female. From Mr. J. Baker's collection.
*e.* Orkney Islands. Male. From Mr. J. Baker's collection.
*f.* Orkney Islands. Female. From Mr. J. Baker's collection.
*g.* Orkney Islands. Chicks. From Mr. J. Baker's collection.
*h.* Sternum. England. Presented by John Ray, Esq.

## b. Lagopus.

### 2. Lagopus albus. The Ptarmigan.

Tetrao lagopus, *Linn. S. N.* i. p. 274; *Temm. Man. d'Orn.* 1815, p. 293; *Naum. Vög. Deuts.* (1833) vi. p. 401, t. 160, 161; *Jenyns, Man. B. Vert. Anim.* p. 170; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 76.

Lagopus mutus, *Leach, Syst. Cat. of Mam. & B. B. M.* p. 27; *Steph. Gen. Zool.* xi. p. 287, pl. 21.

Tetrao alpinus, *Nils. Orn. Suec.* i. p. 311.

Lagopus alpinus, *Nils. Skand. Faun.* ii. p. 98; *Keys. & Bl. Wirbelth. Eur.* p. 63.

Lagopus vulgaris, *Vieill. N. Dict. d'Hist. Nat.* xvii. p. 199; *Flem. Brit. Anim.* p. 43; *Eyton, Cat. Brit. B.* p. 30.

Tetrao rupestris (Gmel.), *Jenyns, Man. B. Vert. Anim.* p. 171; *Eyton, Cat. Brit. B.* p. 31?

Tetrao montanus, *Brehm.*

Lagopus montanus, *Brehm, Vög. Deuts.* p. 516.

Lagopus albus, *Boie, Isis*, 1822, p. 557; *G. R. Gray, Gen. of B.* iii. p. 517.

Lagopus cinereus, *Macgill. Hist. Brit. B.* i. p. 187.

White Grouse, *Bew. Brit. B.* 1797, i. p. 303, fig.
Rock Grouse, *Eyton, Hist. R. Brit. B.* i. p. 25, fig.?
Ptarmigan, *Mont. Orn. Dict.; Penn. Brit. Zool.* 1812, i. p. 359, pl. 57; *Selby, Brit. Orn.* i. p. 310; *Yarr. Brit. B.* 2 edit. ii. p. 359, fig.

*Pl. enl.* 129, 494; *Gould, B. of Eur.* pl. 253.

*a*. Scotland. Spring. Presented by J. Gould, Esq.
*b*. Scotland. In change. From Col. Montagu's collection.
*c*. Scotland. Winter. From Col. Montagu's collection.
*d*, *e*. Inverness. From Mr. J. Baker's collection.
*f*. Leadenhall Market. From Mr. J. Baker's collection.
*g*. Sternum. England. Presented by T. Ingall, Esq.
*h*. Sternum. England. Presented by John Ray, Esq.

# ORDER VI. STRUTHIONES.

Gallinæ, pt. *Linn.* (1735); *Lath.* (1790).
Brachypteræ, *Mœhr.* (1752).
Grallæ, pt. *Linn.* (1760).
Nudipedes, pt. *Schæff.* (1774).
Fissipedes bidactyles—F. tridactyles, *Schæff.* (1774).
Retipedes, pt.—Longipedes, pt. *Scop.* (1777).
Struthiones, *Lath.* (1790).
Gallinæ, pt.—Brevipennes, *Cuv.* (1799—1800).
Cursores, pt.—Proceri—Campestris, *Illig.* (1811).
Cursores, pt. *Temm.* (1815).
Grallatores, pt.—G. di-tridactyli.—Megistanes—Pedionomi, *Vieill.* (1816).
Grallæ, pt.—Brevipennes—Pressirostres, pt. *Cuv.* (1817).
Cursores—Inertes, pt. *Temm.* (1820).
Ratitæ, pt.—Brachypteri—Tachidromi, pt. *Ranz.* (1823).
Rasores, pt. *Vigors.* (1826).
Cursitrices, pt. *Macgill.* (1840).
Grallatores, pt. *Keys. & Bl.* (1840).

## FAM. I. STRUTHIONIDÆ.

### i. *OTIDINÆ.*

#### 1. OTIS.

Otis, *Linn. S. N.* i. (1735).
Tetrax, *Leach, Syst. Cat. Mam. & B. B. M.* (1816).

##### 1. OTIS TARDA. The Great Bustard.

Otis tarda, *Linn. S. N.* i. p. 264; *Temm. Man. d'Orn.* 1815; p. 317; *Leach, Syst. Cat. Mam. & M.* p. 27; *Flem. Brit. An.* p. 115; *Brehm, Vög. Deuts.* p. 532; *Naum. Vög. Deuts.* (1834), vii. p. 12, t. 167, 168; *Jenyns, Man. B. Vert. An.* p. 174; *Eyton, Cat. Brit. B.* p. 33; *Macgill. Man. N. H. Ornith.* ii. p. 39; *Keys. & Bl. Wirbelth. Eur.* p. 67; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 79; *G. R. Gray, Gen. of B.* iii. p. 532.
Otis major, *Brehm, Vög. Deuts.* p. 531, t. 27, f. 1.

Great Bustard, *Bew. Brit. B.* 1797, i. p. 314, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* 1812, i. p. 376, pl. 48; *Selby, Brit. Orn.* i. p. 326; *Yarr. Brit. B.* 2 edit. ii. p. 415, fig.

*Pl. enl.* 245; *Gould, B. of Eur.* pl. 267.

*a.* Wiltshire. Male. From Col. Montagu's collection.

### 2. Otis tetrax. The Little Bustard.

Otis tetrax, *Linn. S. N.* i. p. 264. *Temm. Man. d'Orn.* 1815, p. 318; *Flem. Brit. An.* p. 115; *Brehm, Vög. Deuts.* p. 533; *Naum. Vög. Deuts.* (1834) vii. p. 52, t. 169; *Jenyns, Man. B. Vert. An.* p. 175; *Eyton, Cat. Brit. B.* p. 33; *Keys. & Bl. Wirbelth. Eur.* p. 67; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 79; *G. R. Gray, Gen. of B.* iii. p. 532.

Tetrax campestris, *Leach, Syst. Cat. Mam. & B. B. M.* p. 28; *Steph. Gen. Zool.* xi. p. 455, pl. 32.

Otis tetrao, *Macgill. Man. N. H. Ornith.* ii. p. 40.

Little Bustard, *Bew. Brit. B.* (1797) i. p. 318, fig.; *Mont. Orn. Dict.; Selby, Brit. Orn.* i. p. 330; *Yarr. Brit. B.* 2 edit. ii. p. 426, fig.

Lesser Bustard, *Penn. Brit. Zool.* 1812 i. p. 379.

*Pl. enl.* 25, 10; *Gould, B. of Eur.* pl. 269.

*a.* Plymouth, Devon. Presented by W. Prideaux, Esq.

*b.* Norfolk. From Mr. Bullock's museum.

## 2. EUPODOTIS.

Eupodotis, *Less. Rev. Zool.* (1839) i. p. 47.

Houbara, *Pr. Bonap.* (1832).

Chlamydotis, *Less. Rev. Zool.* (1839) p. 47.

### ?? Eupodotis undulata. The Ruffed Bustard.

Eupodotis undulata, *G. R. Gray, Gen. of B.* iii. p. 533.

Houbara undulata, *G. R. Gray, List of Gen. of B.* 1841, p. 83.

Otis houbara, *Gmel. S. N.* i. p. 725; *Roberts, in Zoologist*, 1848, p. 2065; *Newm. Pref. to Zoologist* (1848) p. vi.; *Keys. & Bl. Wirbelth. Eur.* p. 67.

Psophia undulata, *Jacq. Vög.* t. 2.

Otis Macqueenii, (Gray) *Gould, in Zoologist*, 1848, p. 2146.
Chlamydotis houbara, *Less. Rev. Zool.* 1839, p. 47.
Little Bustard, *Roberts, in Zoologist*, 1848, p. 1969.

*Gould, B. of Eur.* pl. 268.

(Lincolnshire).

# ORDER VII. GRALLÆ.

Macrorhynchæ—Anseres, pt.—Scolapaces, *Linn.* (1735).
Hydrophilæ, pt.—Scolopaces—Odontorhynchæ, pt.—Urinatrices, pt. *Mœhr.* (1752).
Grallæ, *Linn.* (1760) *Cuv.* (1795—1796).
Nudipedes, pt. — Fissipedes tetradactyles — Pinnatipedes ou Lobipedes—Palmipedes tetradactyles, pt. *Schæff.* (1774).
Retipedes, pt.—Palmipedes, pt.—Longipedes, *Scop.* (1777).
Grallæ — Gallinæ, pt. — Palmipedes, pt. — Pinnatipedes, *Lath.* (1790).
Grallæ—Brevirostres—Cultrirostres—Latirostres—Longirostres—Pressirostres, *Cuv.* (1799)—1800).
Grallatores—Cursores, pt.—Littorales — Alectorides — Herodii — Falcati—Limicolæ—Macrodactyli—Lobipedes—Hygrobatæ, pt. *Illig.* (1811).
Grallatores—Cursores, pt.—Pinnatipedes, pt. *Temm.* (1815—1820).
Grallatores—Ægialites—G. Tetradactyli—Elonomi—Falcirostres—Latirostres—Herodiones—Ærophoni—Uncirostres—Hilebatæ—Macronyches — Macrodactyli — Pinnatipedes — Palmipedes, pt. *Vieill.* (1816).
Grallæ—Cultrirostres—Longirostres—Pressirostres—Macrodactyles, *Cuv.* (1817).
Grallæ—Uncirostri — Tachidromi — Limicoli—Falcirostri—Erodii — Macrodatyli — Pinnatipedi — Latirostri — Igrobata, *Ranz.* (1823).
Grallatores, *Vigors.* (1826); *Keys. & Bl.* (1840).
Cursitrices — Tentatrices — Latitrices — Aucupatrices, *Macgill.* (1840).

## FAM. I. CHARADRIDÆ.

### i. *ŒDICNEMINÆ.*

### 1. ŒDICNEMUS.

Œdicnemus, *Temm. Man. d'Orn.* 1815, p. 321 (1815).
Fedoa, *Leach, Syst. Cat. Mam. & B. B. M.* p. 28 (1816).

1. ŒDICNEMUS CREPITANS. The Great Plover.

Charadrius Œdicnemus, *Linn. S. N.* i. p. 255.
Otis Œdicnemus, *Lath. Ind. Orn.* ii. p. 661.
Œdicnemus crepitans, *Temm. Man. d'Orn.* 1815, p. 322; *Brehm, Vög. Deuts.* p. 538, t. 27, f. 2; *Naum. Vög. Deuts.* (1834) vii. p. 92, t. 172; *Jenyns, Man. B. Vert. An.* p. 177; *Eyton, Cat. Brit. B.* p. 333; *Pr. Bonap. Geogr. Comp. List of B.* p. 45; *Macgill. Man. N. H. Ornith.* ii. p. 46; *Keys. & Bl. Wirbelth. Eur.* p. 69; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 81; *G. R. Gray, Gen. of B.* iii. p. 535.
Fedoa Œdicnemus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 28.
Œdicnemus Belloni, *Flem. Brit. An.* p. 114.
Œdicnemus desertorum, *Brehm, Vög. Deuts.* p. 539.
Œdicnemus arenarius, *Brehm, Vög. Deuts.* p. 539.
Œdicnemus griseus, *Koch, Baier. Zool.* i. p. 266.
The Great Plover, *Bew. Brit. B.* (1797) i. p. 321, fig; *Yarr. Brit. B.* 2 edit. ii. p. 436, fig.
Thick-kneed Bustard, *Mont. Orn. Dict.; Penn. Brit. Zool.* 1812, i. p. 380.
Common Thick-knee, *Selby, Brit. Orn.* i. p. 250.
*Pl. enl.* 919; *Gould, B. of Eur.* pl. 288.

*a.* Wiltshire. From Col. Montagu's collection.
*b.* Cambridgeshire, young.
*c.* Norfolk. Young. Presented by J. Scales, Esq.
*d.* Cambridgeshire. Chicks. Presented by Mr. J. Baker.
*e.* Sternum. England. Presented by John Ray, Esq.
*d.* Skull. England. Presented by John Ray, Esq.

## ii. *CURSORINÆ.*

### 1. CURSORIUS.

Cursorius, *Lath. Ind. Orn.* ii. p. 751 (1790).
Tachydromus, *Ill. Prodr. Mam. & Av.* p. 250 (1811).
Cursor, *Wagl. Syst. Av.* (1827).

1. CURSORIUS GALLICUS. The Cream-coloured Courser.

Cursorius gallicus, *Gmel. S. N.* i. p. 692; *G. R. Gray, Gen. of B.* iii. p. 537.
Cursorius europæus, *Lath. Ind. Orn.* ii. p. 751; *Keys. & Bl. Wirbelth. Eur.* p. 67; *Schleg. Rev. Crit. des. Ois. d'Eur.* p. 80.

Cursorius isabellinus, *Meyer, Taschenb. Deuts.* ii. p. 328; *Temm. Man. d'Orn.* 1815, p. 342; *Flem. Brit. An.* p. 112; *Brehm, Vög. Deuts.* p. 536; *Jenyns, Man. B. Vert. An.* p. 176; *Eyton, Cat. Brit. B.* p. 35; *Pr. Bonap. Geogr. Comp. List of B.* p. 45; *Macgill. Man. N. H. Ornith.* ii. p. 42.
Tachydromus gallicus, *Ill. Prod.* p. 250.
Cursor isabellinus, *Wagl. Syst. Av.* p.
Cursor europæus, *Naum. Vög. Deuts.* (1834) vii. p. 77, t. 171.
Cream-coloured Plover, *Mont. Orn. Dict.*
Cream-coloured Swiftfoot, *Selby, Brit. Orn.* ii. p. 217
Cream-coloured Courser, *Yarr. Brit. B.* 2 edit. ii. p. 431.

*Pl. enl.* 795; *Gould, B. of Eur.* pl. 266.

*a.* St. Albans. From Mr. Donovan's collection.

## iii. *GLAREOLINÆ.*

### 1. GLAREOLA.

Glareola, *Briss. Ornith.* v. p. 141 (1760).
Trachelia, *Scop. Introd. ad Hist. Nat. &c.* (1777).

#### 1. GLAREOLA PRATINCOLA. The Collared Pratincole.

Hirundo pratincola, *Linn. S. N.* i. p. 345.
Glareola austriaca, *Gmel. S. N.* i. p. 695; *Brehm, Vög. Deuts.* p. 565.
Glareola nævia, *Gmel. S. N.* i. p. 695.
Glareola senegalensis, *Gmel. S. N.* i. p. 696; *Brehm, Vög. Deuts.* p. 566.
Glareola torquata, *Meyer, Taschenb. Deuts.* ii. p. 404; *Temm. Man. d'Orn.* 1815, p. 352; *Flem. Brit. An.* p. 94; *Brehm, Vög. Deuts.* p. 566; *Naum. Vög. Deuts.* (1838) ix. p. 437, t. 234; *Macgill. Man. N. H. Ornith.* ii. p. 43.
Glareola pratincola, *Leach, Linn. Trans.* xiii. p. 131, pl. 12; *Savi, Ornit. Tosc.* i. p. 214; *Jenyns, Man. B. Vert. An.* p. 216; *Eyton, Cat. Brit. B.* p. 47; *Pr. Bonap. Geogr. Comp. List of B.* p. 45; *Keys. & Bl. Wirbelth. Eur.* p. 66; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 80; *G. R. Gray, Gen. of B.* iii. p. 538.
Austrian Pratincole, *Mont. Orn. Dict. Suppl.* pl.
Collared Pratincole, *Selby, Brit. Orn.* i. p. 322; *Yarr. Brit. B.* 2 edit. ii. p. 441, fig.

*Pl. enl.* 882; *Gould, B. of Eur.* pl. 265.

(Lancashire, Isle of Unst, &c.)

## iv. *CHARADRINÆ.*

### 1. VANELLUS.

Vanellus, *Linn. S. N.* (1735).
Parra, *Lacep. Mem. de l'Instit.* (1800—1801).

#### 1. VANELLUS CRISTATUS. The Crested Lapwing.

Tringa vanellus, *Linn. S. N.* i. p. 248.
Vanellus vulgaris, *Bechst. Ornith. Taschenb.* ii. p. 313.
Charadrius vanellus, *Wagl. Syst. Av.* p. ; *Naum. Vög. Deuts.* (1838) ix. p. 269, t. 179.
Vanellus gavia, *Leach, Syst. Cat. Mam. & B. B. M.* p. 29; *Steph. Gen. Zool.* xi. p. 509, pl. 38.
Vanellus bicornis, *Brehm, Vög. Deuts.* p. 557.
Vanellus cristatus, *Meyer, Vög. Deuts.* i. p. 10; *Temm. Man. d'Orn.* 1815, p. 347; *Flem. Brit. An.* p. 111; *Brehm, Vög. Deuts.* p. 555; *Jenyns, Man. B. Vert. An.* p. 182; *Eyton, Cat. Brit. B.* p. 35; *Pr. Bonap. Geogr. Comp. List of B.* p. 46; *Macgill. Man. N. H. Ornith.* ii. p. 55; *Keys. & Bl. Wirbelth. Eur.* p. 69; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 83; *G. R. Gray, Gen. of B.* ii. p. 541.
The Pee-wit, *Bew. Brit. B.* (1797) i. p. 324, fig.
Lapwing, *Mont. Orn. Dict.*
Lapwing Sandpiper, *Penn. Brit. Zool.* ii. p. 66.
Crested or Green Lapwing, *Selby, Brit. Orn.* ii. p. 221.
The Peewit or Lapwing, *Yarr. Brit. B.* 2 edit. ii. p. 481, fig.
*Pl. enl.* 242; *Gould, B. of Eur.* pl. 291.

*a.* Wiltshire. From Col. Montagu's collection.
*b.* Cambridgeshire. Young. Presented by Mr. J. Baker.
*c.* Cambridgeshire. Chicks. Presented by Mr. J. Baker.
*d.* Kirkwall. Young. From Mr. J. Baker's collection.
*e.* Sternum. England. Presented by John Ray, Esq.
*f.* Skull. England. Presented by John Ray, Esq.

### 2. SQUATAROLA.

Squatarola, *Cuv. Règ. Anim.* (1817) i. p. 467.
Vanellus, *Mœhr. Av. Gen.* p. 76 (1752).

### 1. SQUATAROLA HELVETICA. The Grey Plover.

Tringa squatarola, *Linn. S. N.* i. p. 252.
Tringa varia, *Linn. S. N.* i. p. 252.
Tringa helvetica, *Linn. S. N.* i. p. 250.
Charadrius hypomelas, *Pall. Reisc.* iii. p. 699.
Charadrius pardela, *Pall. Zoogr.* ii. p. 142.
Vanellus melanogaster, *Bechst. Naturg. Deuts.* iv. p. 356; *Temm. Man. d'Orn.* 1815, p. 345.
Charadrius squatarola, *Naum. Vög. Deuts.* (1838) ix. p. 249, t. 178.
Squatarola helvetica, *Brehm, Vög. Deuts.* p. 554; *Pr. Bonap. Geogr. Comp. List of B.* p. 46; *Keys. & Bl. Wirbelth. Eur.* p. 70; *G. R. Gray, Gen. of B.* iii. p. 543.
Squatarola grisea, *Leach, Syst. Cat. Mam. & B. B. M.* p. 29; *Steph. Gen. Zool.* xi. p. 505.
Squatarola cinerea (*Cuv.*), *Flem. Brit. An.* p. 111; *Eyton, Cat. Brit. B.* p. 34.
Squatarola varia, *Boie, Isis* (1822), p. 558; *Brehm, Vög. Deuts.* p. 553.
Vanellus griseus, *Jenyns, Man. B. Vert. An.* p. 181.
Pluvialis squatarola, *Macgill. Man. N. H. Ornith.* ii. p. 48.
Gray Plover, *Bew. Brit. B.* (1797) i. p. 331; *Yarr. Brit. B.* 2 edit. ii. p. 477, fig.
Grey Sandpiper, *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) ii. p. 69.
Bastard or Grey Plover, *Selby, Brit. Orn.* ii. p. 227.
*Pl. enl.* 923, 854, 853; *Gould, B. of Eur.* pl. 290.

*a.* Bristol. Male. From Col. Montagu's collection.
*b.* Bristol. Female. From Col. Montagu's collection.
*c.* Great Britain.
*d.* Bristol.
*e.* Epping. Presented by H. Doubleday, Esq.
*f.* Sternum. England. Presented by T. Ingall, Esq.

### 3. CHARADRIUS.

Charadrius, *Linn. S. N.* (1735).
Pluvialis, *Briss. Ornith.* v. p. 42 (1760).
Eudromias, *Boie* (182?).
Hiaticula (*Mœhr.*), *G. R. Gray, List of Gen. of B.* (1840) p. 65.
Ægialites, *Boie, Isis* (1822), p. 558.

## a. CHARADRIUS.

### 1. CHARADRIUS PLUVIALIS. The Golden Plover.

Charadrius pluvialis, *Linn. S. N.* i. p. 254; *Temm. Man. d'Orn.* 1815, p. 324; *Leach, Syst. Cat. Mam. & B. B. M.* p. 29; *Flem. Brit. An.* p. 113; *Brehm, Vög. Deuts.* p. 543; *Jenyns, Man. B. Vert. An.* p. 177; *Eyton, Cat. Brit. B.* p. 34; *Pr. Bonap. Geogr. Comp. List of B.* p. 45; *Keys. & Bl. Wirbelth. Eur.* p. 70; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 81; *G. R. Gray, Gen. of B.* iii. p. 544.

Charadrius auratus, *Suckow. Nat. der Thier.* ii. p. 1592; *Brehm, Vög. Deuts.* p. 542; *Naum. Vög. Deuts.* (1834) vii. p. 138, t. 173.

Charadrius apricarius, *Linn. S. N.* i. p. 254; *Brehm, Vög. Deuts.* p. 541, t. 27, f. 3.

Charadrius altifrons, *Brehm, Vög. Deuts.* p. 542.

Pluvialis aurea, *Macgill. Man. N. H. Ornith.* ii. p. 49.

The Golden Plover, *Bew. Brit. B.* (1797) i. p. 329, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 98, pl. 17, low. fig.; *Yarr. Brit. B.* 2 edit. ii. p. 447, fig.

*Pl. enl.* 904; *Gould, B. of Eur.* pl. 294.

*a*. Dartmoor. Presented by P. Ilbert, Esq.
*b*. Great Britain. Presented by R. Scales, Esq.
*c*. Epping. Male, young. Presented by H. Doubleday, Esq.
*d*. Epping. Female. Presented by H. Doubleday, Esq.
*e*. Cambridgeshire. Presented by Mr. J. Baker.
*f*. Ham Hill. Very young. From Mr. J. Baker's collection.

## b. EUDROMIAS.

### 2. CHARADRIUS MORINELLUS. The Dotterel.

Charadrius morinellus, *Linn. S. N.* i. p. 254; *Temm. Man. d'Orn.* 1815, p. 326; *Leach, Syst. Cat. Mam. & B. B. M.* p. 28; *Flem. Brit. An.* p. 113; *Naum. Vög. Deuts.* (1834) vii. p. 163, t. 174; *G. R. Gray, Gen. of B.* iii. p. 544.

Charadrius sibiricus, *Gmel. S. N.* i. p. 690.

Eudromias morinella (*Boie*), *Brehm, Vög. Deuts.* p. 545; *Pr. Bonap. Geogr. Comp. List of B.* p. 45.

Eudromias montana, *Brehm, Vög. Deuts.* p. 546.

Eudromias stolida, *Brehm, Vög. Deuts.* p. 547.

Pluvialis morinellus, *Macgill. Man. N. H. Ornith.* ii. p. 50.

The Dotterel, *Bew. Brit. B.* (1797) i. p. 332, fig.; *Selby, Brit. Orn.* ii. p. 236; *Yarr. Brit. B.* 2 edit. ii. p. 455, fig.
Dottrel, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 102, pl. 18, low. fig.

*Pl. enl.* 832; *Gould, B. of Eur.* pl. 295.

*a.* Liverpool. Male. From Col. Montagu's collection.
*b.* Cambridgeshire. Male. Presented by Mr. J. Baker.
*c.* Lancaster. From Col. Montagu's collection.
*d.* Sussex.
*e.* Great Britain?
*f.* Cambridgeshire. Male. From Mr. J. Baker's collection.
*g.* Cambridgeshire. Female. From Mr. J. Baker's collection.
*h.* Sternum. England. Presented by John Ray, Esq.

## c. HIATICULA.

### 3. CHARADRIUS HIATICULA. The Ringed Plover.

Charadrius hiaticula, *Linn. S. N.* i. p. 253; *Temm. Man. d'Orn.* 1815, p. 328; *Flem. Brit. An.* p. 113; *Naum. Vög. Deuts.* (1833) vii. p. 291, t. 175; *Jenyns, Man. B. Vert. An.* p. 179; *Eyton, Cat. Brit. B.* p. 34; *Macgill. Man. N. H. Ornith.* ii. p. 52; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 83; *G. R. Gray, Gen. of B.* iii. p. 544.
Charadrius torquatus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 28.
Ægialitis septentrionalis, *Brehm, Vög. Deuts.* p. 548.
Ægialitis hiaticula, *Boie, Isis* (1822), p. 558; *Brehm, Vög. Deuts.* p. 549; *Pr. Bonap. Geogr. Comp. List of B.* p. 45; *Keys. & Bl. Wirbelth. Eur.* p. 71.
Hiaticula annulata, *G. R. Gray, List of Gen. of B.* (1840) p. 65.
Hiaticula torquata, *G. R. Gray, List of Spec. in Brit. Mus.* p. 68.
The Ring Dotterel, *Bew. Brit. B.* (1797) i. p. 334, fig.
Ringed Plover, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1813) ii. p. 105; *Selby, Brit. Orn.* ii. p. 240; *Yarr. Brit. B.* 2 edit. ii. p. 465, fig.

*Pl. enl.* 920; *Gould, B. of Eur.* pl. 296.

*a.* Carmarthen. Male. From Col. Montagu's collection.
*b.* Carmarthen. Female. From Col. Montagu's collection.
*c.* Carmarthen From Col. Montagu's collection.
*d.* Great Britain. From Col. Montagu's collection.
*e.* Great Britain.

*f.* Hayling Island. Presented by J. W. Tyndale, Esq.
*g.* Sternum. England. Presented by T. Ingall, Esq.
*h.* Sternum. England. Presented by John Ray, Esq.

### 4. Charadrius curonicus. The Little Ringed Plover.

Charadrius minor, *Meyer, Taschenb. Deuts.* ii. 324; *Temm. Man. d'Orn.* 1815, p. 330; *Naum. Vög. Deuts.* (1834) vii. p. 225, t. 177; *Jenyns, Man. B. Vert. An.* p. 179; *Macgill. Man. N. H. Ornith.* ii. p. 53; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 83.
Charadrius fluviatilis, *Bechst. Naturg. Deuts.* iv. p. 422.
Ægialitis fluviatilis, *Brehm, Vög. Deuts.* p. 549.
Charadrius curonicus, *Beseke, Vög. Curt.* p. 66; *G. R. Gray, Gen. of B.* iii. p. 544.
Ægialites curonicus, *Keys. & Bl. Wirbelth. Eur.* p. 71.
Charadrius hiaticula, *Pall. Zoogr.* ii. p. 144.
Charadrius intermedius, *Menetr. Catal.* p. 53.
Charadrius zonatus, *Swains. B. of W. Afr.* ii. p. , pl.
Ægialitis minor, *Boie, Isis* (1822), p. 558; *Brehm, Vög. Deuts.* p. 550; *Pr. Bonap. Geogr. Comp. List of B.* p. 45.
The Little Ringed Plover, *Yarr. Brit. B.* 2 edit. ii. p. 473, fig. *Pl. enl.* 921; *Gould, B. of Eur.* pl. 297.

(Shoreham).

### 5. Charadrius cantianus. The Kentish Plover.

Charadrius cantianus, *Lath. Ind. Orn. Suppl.* p. lxvi.; *Temm. Man. d'Orn.* 1815, p. 331; *Naum. Vög. Deuts.* (1834) vii. p. 210, t. 176; *Jenyns, Man. B. Vert. An.* p. 180; *Eyton, Cat. Brit. B.* p. 34; *Macgill. Man. N. H. Ornith.* ii. p. 53; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 82; *G. R. Gray, Gen. of B.* iii. p. 544.
Charadrius albifrons, *Meyer, Taschenb. Deuts.* ii. p. 323.
Charadrius littoralis, *Bechst. Naturg. Deuts.* iv. p. 430, t. 23, f. 1, 2.
Charadrius Alexandrinus, *Hassel. Reise.* p. 213; *Flem. Brit. An.* p. 114.
Ægialitis cantianus, *Boie, Isis* (1822), p. 558; *Brehm, Vög. Deuts.* p. 551; *Pr. Bonap. Geogr. Comp. List of B.* p. 45; *Keys. & Bl. Wirbelth. Eur.* p. 71.
Ægialitis albifrons, *Brehm, Vög. Deuts.* p. 551.
Ægialitis albigularis, *Brehm, Vög. Deuts.* p. 552.

Kentish Plover, *Lewin, Brit. B.* v. pl. 185; *Mont. Orn. Dict.* (Ringed Plover); *Selby, Brit. Orn.* ii. p. 243; *Yarr. Brit. B.* 2 edit. ii. p. 469, fig.

*Gould, B. of Eur.* pl. 298.

*a*—*c*. Great Britain.
*e*. Hastings. Male. From Mr. J. Baker's collection.
*f*. Hastings. Female. From Mr. J. Baker's collection.

## v. *HÆMATOPODINÆ*.

### 1. HÆMATOPUS.

Hæmatopus, *Linn. S. N.* (1735).
Ostralega, *Briss. Ornith.* v. p. 38 (1760).

#### 1. HÆMATOPUS OSTRALEGUS. The Oyster-catcher.

Hæmatopus ostralegus, *Linn. S. N.* i. p. 257; *Temm. Man. d'Orn.* 1815, p. 340; *Leach, Syst. Cat. Mam. & B. B. M.* p. 28; *Flem. Brit. An.* p. 115; *Brehm, Vög. Deuts.* p. 561, t. 29, f. 1; *Naum. Vög. Deuts.* (1834) vii. p. 325, t. 181; *Jenyns, Man. B. Vert. An.* p. 184; *Eyton, Cat. Brit. B.* p. 35; *Pr. Bonap. Geogr. Comp. List of B.* p. 46; *Keys. & Bl. Wirbelth. Eur.* p. 71; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 85; *G. R. Gray, Gen. of B.* iii. p. 547.
Hæmatopus hypoleucus, *Pall. Zoogr.* ii. p. 129.
Hæmatopus balthicus, *Brehm, Vög. Deuts.* p. 563.
Hæmatopus orientalis, *Brehm, Vög. Deuts.* p. 563.
Ostralegus hæmatopus, *Macgill. Man. N. H. Ornith.* ii. p. 59.
Ostralegus vulgaris, *Less. Rev. Zool.* 1849, p. 47.
Oyster-catcher, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 7, fig.: *Yarr. Brit. B.* 2 edit. ii. p. 496, fig.
Pied Oyster-catcher, *Penn. Brit. Zool.* (1812) ii. p. 112, pl, 19.

*Pl. enl.* 929; *Gould, B. of Eur.* pl. 300.

*a*, *b*. Great Britain.
*c*. Great Britain. Young.
*d*. Shetland Islands. From Mr. J. Baker's collection.
*e*. Sternum. England. Presented by T. Ingall, Esq.
*f*. Skull. England.
*g*. Trachea. England.
*h*. Skull. England. Presented by John Ray, Esq.

## vi. *Cinclinæ.*

### 1. CINCLUS.

Cinclus, *Mœhr. Avium Gen.* p. 77 (1752).
Strepsilas, *Ill. Prodr. Mam. & Av.* p. 263 (1811).
Arenaria, *Briss. Ornith.* v, p. 132 (1760).
Morinella, *Meyer, Vög. Liv. und Ecthl.* p. 210 (1810).

#### 1. Cinclus interpres. The Turnstone.

Strepsilas interpres, *Ill. Prod. Mam. & Av.* p. 263; *Leach, Syst. Cat. Mam. & B. B. M.* p. 29; *Steph. Gen. Zool.* xi. p. 520; *Flem. Brit. An.* p. 110; *Naum. Vög. Deuts.* (1834) vii. p. 303, t. 160; *Jenyns, Man. B. Vert. An.* p. 182; *Eyton, Cat. Brit. B.* p. 43; *Pr. Bonap. Geogr. Comp. List of B.* p. 46; *Keys. & Bl. Wirbelth. Eur.* p. 71; *Macgill. Man. N. H. Ornith.* ii. p. 57; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 85.
Tringa interpres, *Linn. S. N.* i. p. 248.
Tringa morinella, *Linn. S. N.* i. p. 249.
Morinella collaris, *Meyer, Vög. Liv. und Ecthl.* p. 210.
Charadrius cinclus, *Pall. Zoogr.* ii. p. 148.
Strepsilas collaris, *Temm. Man. d'Orn.* 1815, p. 349; *Brehm, Vög. Deuts.* p. 558.
Cinclus interpres, *G. R. Gray, Gen. of B.* iii. p. 549.
Cinclus morinellus, *G. R. Gray, List of Gen. of B.* (1841) p. 87.
Strepsilas borealis, *Brehm, Vög. Deuts.* p. 559.
Strepsilas littoralis, *Brehm, Vög. Deuts.* p. 560.
Turnstone, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 126, fig.; *Yarr. Brit. B.* 2 edit. ii. p. 486, fig.
Turnstone Sandpiper, *Penn. Brit. Zool.* (1812) ii. p. 83.
*Pl. enl.* 856, 340, 857; *Gould, B. of Eur.* pl. 318.

*a*. Great Britain. Adult.
*b*. London Market. From Mr. J. Baker's collection.
*c*. Sternum. England. Presented by John Ray, Esq.

# Fam. II. ARDEIDÆ.

## i. *Psophinæ.*

### 1. PSOPHIA.

Psophia, *Linn. S. N.* (1756).

?1. Psophia crepitans. The Gold-breasted Trumpeter.

Psophia crepitans, *Linn. S. N.* i. p. 286; *Jenyns, Man. B. Vert. An.* p. 185; *Eyton, Cat. Brit. B.* p. 67.
Grus psophia, *Pall. Spic.* iv. t. 1.
The Golden-breasted Trumpeter, *Mont. Orn. Dict. Suppl.* (White-winged Grosbeak).
*Pl. enl.* 169.
(Surrey).

## ii. *Gruinæ.*

### 1. GRUS.

Grus, *Linn. S. N.* (1735).
Megalornis, *G. R. Gray, List of Gen. of B.* (1841) p. 85.

1. Grus cinerea. The Common Crane.

Ardea grus, *Linn. S. N.* i. p. 234.
Grus cinerea, *Bechst. Naturg. Deuts.* iv. p. 103; *Temm. Man. d'Orn.* 1815, p. 356; *Flem. Brit. An.* p. 97; *Brehm, Vög. Deutsr.* p. 570, t. 30, f. 2; *Naum. Vög. Deuts.* (1838) ix. p. 345, t. 231; *Jenyns, Man. B. Vert. An.* p. 185; *Eyton, Cat. Brit. B.* p. 35; *Pr. Bonap. Geogr. Comp. List of B.* p. 46; *Keys. & Bl. Wirbelth. Eur.* p. 69; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 100; *Macgill. Man. N. H. Ornith.* ii. p. 36; *G. R. Gray, Gen. of B.* i. p. 552.
Grus cineracea, *Brehm, Vög. Deuts.* p. 571.
Grus communis, *Bechst. Ornith. Taschenb.* ii. p. 271.
Grus vulgaris, *Pall. Zoogr.* ii. p. 106.
Crane, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 29, fig.
Crane Heron, *Penn. Brit. Zool.* (1812) ii. p. 7, pl. 2.

Common Crane, *Selby, Brit. Orn.* ii. p. 4; *Yarr. Brit. B.* 2 edit. ii. p. 501, fig.

*Pl. enl.* 769; *Gould, B. of Eur.* pl. 270.

(Cork, Devonshire, Oxfordshire and Shetland, &c.)

## iii. *ARDEINÆ.*

### 1. ARDEA.

Ardea, *Linn. S. N.* (1735).
Herodias, *Boie, Isis* (1822), p. 559.
Egretta, *Pr. Bonap. Sagg. Distr. Met. Anim. Vert.* (1831).
Garzetta, *Kaup, Naturl. Syst. der Eur. Thier.* p. 76 (1829).
Erodius, *Macgill. Man. N. H. Ornith.* ii. p. 130 (1842).
Ardeola, *Boie, Isis* (1822), p. 559.
Buphus, *Boie, Isis* (1822), p. 559.
Cancrophagus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 42 (1829).
Ardetta, *G. R. Gray.*
Ardeola, *Pr. Bonap.* (1828).

### a. ARDEA.

#### 1. ARDEA CINEREA. The Common Heron.

Ardea cinerea, *Linn. S. N.* i. p. 236; *Temm. Man. d'Orn.* 1815, p. 362; *Leach, Syst. Cat. Mam. & B. B. M.* p. 33; *Flem. Brit. An.* p. 95; *Brehm, Vög. Deuts.* p. 580; *Naum. Vög. Deuts.* (1838) ix. p. 24, t. 220; *Jenyns, Man. B. Vert. An.* p. 186; *Eyton, Cat. Brit. B.* p. 36; *Pr. Bonap. Geogr. Comp. List of B.* p. 47; *Keys. & Bl. Wirbelth. Eur.* p. 79; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 96; *Macgill. Man. N. H. Ornith.* ii. p. 128; *G. R. Gray, Gen. of B.* iii. p. 555.
Ardea major, *Linn. S. N.* i. p. 236; *Brehm, Vög. Deuts.* p. 578.
Ardea cineracea, *Brehm, Vög. Deuts.* p. 580.
Ardea rhenana, *Sander. Naturf.* xiii. p. 195.
Heron, *Bew. Brit. B.* (1804) ii. p. 37, fig.
Common Heron, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 10, pl. 3; *Selby, Brit. Orn.* ii. p. 11; *Yarr. Brit. B.* 2 edit. ii. p. 508, fig.

*Pl. enl.* 755; *Gould, B. of Eur.* pl. 273.

*a*. Devonshire. Male. From Col. Montagu's collection.
*b*, *c*. England. Females.
*d*. Cambridgeshire. Male. From Mr. J. Baker's collection.
*e*. Sternum. England.
*f*. Skeleton. Scotland. Presented by Mr. E. Gerrard.
*g*. Sternum. England. Presented by John Ray, Esq.

### 2. ARDEA PURPUREA. The Purple Heron.

Ardea purpurea, *Linn. S. N.* i. p. 236; *Temm. Man. d'Orn.* 1815, p. 364; *Flem. Brit. An.* p. 96; *Brehm, Vög. Deuts.* p. 582, t. 30, f. 3; *Naum. Vög. Deuts.* (1838) ix. p. 63, t. 221; *Jenyns, Man. B. Vert. An.* p. 186; *Eyton, Cat. Brit. B.* p. 36; *Pr. Bonap. Geogr. Comp. List of B.* p. 47; *Keys. & Bl. Wirbelth. Eur.* p. 79; *Macgill. Man. N. H. Ornith.* ii. p. 129; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 97; *G. R. Gray, Gen. of B.* iii. p. 555.
Ardea caspia, *Gmel. Reise*, ii. p. 193, t. 14; *Leach, Syst. Cat. Mam. & B. B. M.* p. 33; *Brehm, Vög. Deuts.* p. 581.
Ardea botaurus, *Gmel. S. N.* i. p. 636.
Ardea rufa, *Gmel. S. N.* i. p. 642.
Ardea purpurata, *Gmel. S. N.* i. p. 641.
Ardea rubiginosa, *Gmel. S. N.* i. p. 632.
Ardea purpurascens, *Brehm, Vög. Deuts.* p. 583.
Ardea variegata, *Scop. Ann.* i. No. 120.
Ardea monticola, *La Peyr.*
African Heron, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 28.
Crested Purple Heron, *Selby, Brit. Orn.* ii. p. 15.
Purple Heron, *Yarr. Brit. B.* 2 edit. ii. p. 514, fig.

*Pl. enl.* 788; *Gould, B. of Eur.* pl. 274.

*a*, *b*. England.
*c*. Trachea. England. From Col. Montagu's collection.

## b. HERODIAS.

### 3. ARDEA ALBA. The Great White Heron.

Ardea alba, *Linn. S. N.* i. p. 239; *Jenyns, Man. B. Vert. An.* p. 187; *Keys. & Bl. Wirbelth. Eur.* p. 79; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 97; *Eyton, Cat. Brit. B.* p. 67; *G. R. Gray, Gen. of B.* iii. p. 555.

Ardea egretta, (*Linn.*) *Temm. Man. d'Orn.* 1815, p. 367; *Flem. Brit. An.* p. 95; *Naum. Vög. Deuts.* (1838) ix. p. 85, t. 222.
Ardea egrettoïdes, *Gmel. Reise*, ii. p. 193, t. 24.
Erodius Victoriæ, *Macgill. Man. N. H. Ornith.* ii. p. 131.
Erodius albus, *Macgill. Man. N. H. Ornith.* ii. p. 134.
Herodias candida, *Brehm, Vög. Deuts.* p. 584.
Herodias egretta, *Boie, Isis* (1822), p. 559; *Brehm, Vög. Deuts.* p. 584, t. 30, f. 4.
Egretta alba, *Swains. Classif. of B.* ii. p. 354; *Pr. Bonap. Geogr. Comp. List of B.* p. 47.
Great White Heron, *Mont. Orn. Dict.; Selby, Brit. Orn.* ii. p. 18; *Yarr. Brit. B.* 2 edit. ii. p. 518, fig.
White Heron, *Penn. Brit. Zool:* (1812) ii. p. 19, pl. 5.

*Pl. enl.* 886; *Gould, B. of Eur.* pl. 276.

(Devonshire, Norfolk, Yorkshire, &c.)

### 4. Ardea garzetta. The Little Egret.

Ardea Garzetta, *Linn. S. N.* i. p. 937; *Temm. Man. d'Orn.* 1815, p. 368; *Flem. Brit. An.* p. 96; *Naum. Vög. Deuts.* (1838) ix. p. 101, t. 223; *Jenyns, Man. B. Vert. An.* p. 187; *Eyton, Cat. Brit. B.* p. 36; *Keys. & Bl. Wirbelth. Eur.* p. 79; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 97; *G. R. Gray, Gen. of B.* iii. p. 555.
Ardea nivea, *S. G. Gmel. Nov. Comm. Petrop.* xv. p. 458, t. 17.
Herodias garzetta, *Boie, Isis* (1822), p. 560; *Brehm, Vög. Deuts.* p. 586.
Garzetta ———, *Kaup, Naturl. Syst.* p. 76.
Egretta garzetta, *Pr. Bonap. Geogr. Comp. List of B.* p. 47; *Swains. Classif. of B.* ii. p. 354.
Herodias jubata, *Brehm, Vög. Deuts.* p. 586.
Herodias nivea, *Brehm, Vög. Deuts.* p. 587.
Erodius garzetta, *Macgill. Man. N. H. Ornith.* ii. p. 135.
Egret, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 45, fig.
Egret Heron, *Penn. Brit. Zool.* (1812) ii. p. 21, pl. 6.
Little Egret Heron, *Selby, Brit. Orn.* ii. p. 21.
The Little Egret, *Yarr. Brit. B.* 2 edit. ii. p. 522, fig.

*Pl. enl.* 901; *Gould, B. of Eur.* pl. 277.

(Anglesey, Ireland, Cornwall, &c.)

## c. Buphus.

### 5. Ardea coromanda. The Buff-backed Heron.

Ardea russata, *Wagl. Syst. Av.*; *Temm. Man. d'Orn.* (1820) ii. p. 566, and pt. iv. p. 377; *Jenyns, Man. B. Vert. An.* p. 188; *Eyton, Cat. Brit. B.* p. 37; *Keys. & Bl. Wirbelth. Eur.* p. 80.
Ardea coromanda, *Bodd. Tab. des Pl. Enl.* p. 54.
Egretta russata, *G. R. Gray, Gen. of B.* iii. p. 556; *Swains. Classif. of B.* ii. p. 354.
Ardea æquinoctialis, *Mont. Linn. Trans.* ix. p. 197; *Leach, Syst. Cat. Mam. & B. B. M.* p. 33; *Flem. Brit. An.* p. 97.
Erodius russatus, *Macgill. Man. N. H. Ornith.* ii. p. 135.
Buphus russatus, *Boie, Isis*, 1826, p. 356; *Pr. Bonap. Geogr. Comp. List of B.* p. 47.
Ardea bubulcus, *Sav. Descr. de l'Egypte, Zool.* i. 298, t. 8, f. 1.
Ardea Veranyi, *Roux.*
Ardea affinis, *Horsf. Linn. Trans.* xiii. p. 189.
Ardea coromandelica, *Licht. Cat. Doubl. Berl. Mus.* p. 78.
Ardea coromandelensis, *Steph. Gen. Zool.* x. p.
Ardea bicolor, *Vieill. N. Dict. d'Hist. Nat.* xiv. p. 409.
Ardea ruficapilla, *Vieill. N. Dict. d'Hist. Nat.* xiv. p. 409.
Ardea leucocephala, *Cuv. Mus. Paris.*
Ardea caboga, *Frankl. Proc. Zool.* (1831) p. 124.
Ardea lucida, *Rafinq.*
The Little White Heron, *Mont. Orn. Dict. Suppl. & Pl.*
The Buff-backed Heron, *Selby, Brit. Orn.* ii. p. 24; *Yarr. Brit. B.* 2 edit. ii. p. 526, fig.

*Pl. enl.* 910; *Gould, B. of Eur.* pl. 278.

*a.* Devonshire. Female. From Col. Montagu's collection.

### 6. Ardea comata. The Squacco Heron.

Ardea ralloides, *Scop. Ann.* i. No. 121; *Leach, Syst. Cat. Mam. & B. B. M.* p. 96; *Temm. Man. d'Orn.* 1815, p. 369; *Jenyns, Man. B. Vert. An.* p. 189; *Eyton, Cat. Brit. B.* p. 36.
Ardea comata, *Pall. Reise*, ii. p. 715; *Naum. Vög. Deuts.* (1838) ix. p. 120, t. 224; *Keys. & Bl. Wirbelth. Eur.* p. 80; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 97; *G. R. Gray, Gen. of B.* iii. p. 556.
Ardea squaiotta, *Gmel. S. N.* i. p. 634.
Ardea castanea, *Gmel. S. N.* i. p. 633.
Ardea erythropus, *Gmel. S. N.* i. p. 634.
Ardea audax, *La Peyr. Neue. Schwed. abh.* iii. p. 306.
Ardea Marsigli, *Lepechin. Nov. Com. Petr.* xiv. p. 502, t. xiv. f. 1.

Ardea pumila, *Lepechin, Nov. Com. Petr.* xiv. p. 502.
Egretta comata, *Swains. Classif. of B.* ii. p. 354.
Botaurus comatus, *Macgill. Man. N. H. Ornith.* ii. p. 125.
Ardeola ralloides, *Boie, Isis* (1822), p. 559.
Cancrophagus ralloides, (*Boie*) *Kaup, Naturl. Syst.* p. 42.
Buphus comatus, *Boie, Isis*, 1826, p. 356; *Brehm, Vög. Deuts.* p. 588.
Buphus castaneus, *Brehm, Vög. Deuts.* p. 589.
Buphus ralloïdes, *Brehm, Vög. Deuts.* p. 589; *Pr. Bonap. Geogr. Comp. List of B.* p. 48.
Buphus Illyricus, *Brehm, Vög. Deuts.* p. 590, t. 31, f. 1.
Squacco Heron, *Penn. Brit. Zool.* (1812) ii. p. 26; *Selby, Brit. Orn.* ii. p. 25; *Yarr. Brit. B.* 2 edit. ii. p. 530, fig.
Squacco Heron, *Mont. Orn. Dict. Suppl.*

*Pl. enl.* 348; *Gould, B. of Eur.* pl. 275.

*a*. Conway, Denbighshire.

## d. ARDETTA.

### 7. ARDEA MINUTA. The Little Bittern.

Ardea minuta, *Linn. S. N.* i. p. 240; *Leach, Syst. Cat. Mam. & B. B. M.* p. 33; *Temm. Man. d'Orn.* 1815, p. 371; *Flem. Brit. An.* p. 97; *Naum. Vög. Deuts.* (1838) ix. p. 194, t. 227; *Jenyns, Man. B. Vert. An.* p. 189; *Keys. & Bl. Wirbelth. Eur.* p. 80; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 99; *G. R. Gray, Gen. of B.* iii. p. 556.
Ardea danubialis, *Gmel. S. N.* i. p. 637.
Ardea soloniensis, *Gmel. S. N.* i. p. 637.
Botaurus minutus, *Boie, Isis* (1822), p. 559; *Brehm, Vög. Deuts.* p. 597, t. 34, f. 3; *Eyton, Cat. Brit. B.* p. 37; *Macgill. Man. N. H. Ornith.* ii. p. 124.
Botaurus pusillus, *Brehm, Vög. Deuts.* p. 598.
Ardeola minuta, *Pr. Bonap. Geogr. Comp. List of B.* p. 48.
Cancrophagus minutus, *Kaup, Naturl. Syst.* p. 42.
Butor minutus, *Swains. Classif. of B.* ii. p. 354.
Little Bittern, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 51, fig.; *Selby, Brit. Orn.* ii. p. 36; *Yarr. Brit. B.* 2 edit. ii. p. 533, fig.
Little Bittern Heron, *Penn. Brit. Zool.* (1812) ii. p. 18, pl. 4.

*Pl. enl.* 323; *Gould, B. of Eur.* pl. 282.

*a*. Devonshire. From Col. Montagu's collection.
*b*. Leadenhall Market. Young. From Mr. J. Baker's collection.

## 2. BOTAURUS.

Botaurus, *Steph. Gen. Zool.* xi. p. 592 (1819).
Butor, *Swains. Classif. of B.* ii. p. 354 (1837).

### 1. Botaurus lentiginosus. The American Bittern.

Ardea lentiginosa, *Mont. Orn. Dict. Suppl.* pl. ; *Leach, Syst. Cat. Mam. & B. B. M.* p. 33 ; *Temm. Man. d'Orn.* iv. p. 381 ; *Flem. Brit. An.* p. 96 ; *Jenyns, Man. B. Vert. An.* p. 191 ; *Eyton, Cat. Brit. B.* p. 37 ; *Keys. & Bl. Wirbelth. Eur.* p. 80.
Ardea stellaris, var. *Lath. Ind. Orn.* ii. p. 680.
Botaurus freti Hudsonis, *Briss. Orn.* v. p. 449.
Ardea minor, *Wils. Amer. Orn.* viii. pl. 65, f. 3.
Butor americana, *Swains. Classif. of B.* ii. p. 354.
Ardea mokoho, *Vieill. N. Dict. d'Hist. Nat.* xiv. p. 440.
Botaurus lentiginosus, *Steph. Gen. Zool.* xi. p. 596; *Macgill. Man. N. H. Ornith.* ii. p. 124; *G. R. Gray, Gen. of B.* ii. p. 557.
Freckled Heron, *Mont. Orn. Dict. Suppl.*
American Bittern, *Selby, Brit. Orn.* ii. p. 34 ; *Yarr. Brit. B.* 2 edit. ii. p. 545, fig.

*Edwards' Birds*, pl. 136 ; *Gould, B. of Eur.* pl. 284.

*a*. Dorsetshire. From Col. Montagu's collection.
*b*. Piddleton, Dorset. From Col. Montagu's collection.

### 2. Botaurus stellaris. The Common Bittern.

Ardea stellaris, *Linn. S. N.* i. p. 239 ; *Leach, Syst. Cat. Mam. & B. B. M.* p. 33 ; *Temm. Man. d'Orn.* 1815, p. 373 ; *Flem. Brit. An.* p. 95 ; *Naum. Vög. Deuts.* (1838) ix. p. 159, t. 226 ; *Jenyns, Man. B. Vert. An.* p. 199 ; *Keys. & Bl. Wirbelth. Eur.* p. 80 ; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 98.
Botaurus stellaris, *Steph. Gen. Zool.* xi. p. 593 ; *Boie, Isis* (1822), p. 559 ; *Brehm, Vög. Deuts.* p. 595 ; *Eyton, Cat. Brit. B.* p. 37 ; *Pr. Bonap. Geogr. Comp. List of B.* p. 48 ; *G. R. Gray, Gen. of B.* iii. p. 557.
Botaurus lacustris, *Brehm, Vög. Deuts.* p. 596.
Botaurus arundinaceus, *Brehm, Vög. Deuts.* p. 596.
Butor stellaris, *Swains. Classif. of B.* ii. p. 354.
Bittern, *Mont. Orn. Dict ; Bew. Brit. B.* 1804, ii. p. 47, fig.
Common Bittern, *Selby, Brit. Orn.* ii. p. 30 ; *Yarr. Brit. B.* 2 edit. ii. p. 539, fig.

Bittern Heron, *Penn. Brit. Zool.* (1813) ii. p. 14.

*Pl. enl.* 789 ; *Gould, B. of Eur.* pl. 280.

*a*. Devonshire. From Col. Montagu's collection.
*b, c*. London Market. From Mr. J. Baker's collection.
*d*. Trachea. England.
*e*. Sternum. England.
*f*. Sternum. England. Presented by John Ray, Esq.

## 3. NYCTICORAX.

Nycticorax, *Steph. Gen. Zool.* xi. p. 608 (1819).
Nyctiardea, *Swains. Classif. of B.* ii. p. 354 (1837).
Nyctirodius, *Macgill. Man. N. H. Ornith.* ii. p. 126 (1842).
Scotaeus, *Keys. & Bl. Wirbelth. Eur.* p. 80 (1840).

### 1. NYCTICORAX GRISEUS. The Night Heron.

Ardea nycticorax, *Linn. S. N.* i. p. 235 ; *Temm. Man. d'Orn.* 1815, p. 375; *Flem. Brit. An.* p. 96; *Jenyns, Man. B. Vert. An.* p. 191 ; *Naum. Vög. Deuts.* (1838) ix. p. 139, t. 225 ; *Schleg. Rev. Crit. des Ois. dEur* p. 98.
Ardea grisea, *Linn. S. N.* i. p. 239.
Nycticorax griseus, *G. R. Gray, Gen. of B.* iii. p. 558.
Nyctiardea europæa, *Swains. Classif. of B.* ii. p. 355.
Ardea (Scotaeus) nycticorax, *Keys. & Bl. Wirbelth. Eur.* p. 80.
Nycticorax europæus, *Steph. Gen. Zool.* xi. p. 609, pl. 47 ; *Eyton, Cat. Brit. B.* p. 37.
Nycticorax nycticorax, *Boie, Isis*, 1822, p. 560.
Nycticorax orientalis, *Brehm, Vög. Deuts.* p. 592, t. 31, f. 2.
Nycticorax badius, *Brehm, Vög. Deuts.* p. 592.
Nycticorax meridionalis, *Brehm, Vög. Deuts.* p. 593.
Nycticorax Gardeni, *Pr. Bonap. Geogr. Comp. List of B.* p. 48.
Nycticorax ardeola, *Temm. Man. d'Orn.* 1840, iv. p. 384.
Nyctirodius nycticorax, *Macgill. Man, N. H. Ornith.* ii. p. 127.
Night Heron, *Mont. Orn. Dict.; Bew. Brit. B.* 1804, ii. p. 43, fig.; *Penn. Brit. Zool.* (1812) ii. p. 23; *Yarr. Brit. B.* 2 edit. ii. p. 549, fig.
Common Night Heron, *Selby, Brit. Orn.* ii. p. 39.
Gardenian Heron, *Penn. Brit. Zool.* 1812, ii. p. 27, pl. 27.

*Pl. enl.* 758 ; *Gould, B. of Eur.* pl. 279.

*a—c*. Great Britain.

## 4. PLATALEA.

Platalea, *Linn. S. N.* (1735).
Platea, *Briss. Ornith.* v. p. 351 (1760).
Pelecanus, *Mœhr. Avium Gen.* p. 60 (1752).

### 1. PLATALEA LEUCORODIA. The White Spoonbill.

Platalea leucorodia, *Linn. S. N.* i. p. 231 ; *Temm. Man. d'Orn.* 1815, p. 382 ; *Brehm, Vög. Deuts.* p. 600 ; *Jenyns, Man. B. Vert. An.* p. 193 ; *Eyton, Cat. Brit. B.* p. 38 ; *Pr. Bonap. Geogr. Comp. List of B.* p. 48 ; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 101 ; *Macgill. Man. N. H. Ornith.* ii. p. 142 ; *G. R. Gray, Gen. of B.* iii. p. 559.
Platea leucorodia, *Leach, Syst. Cat. Mam. & B. B. M.* p. 33 ; *Flem. Brit. An.* p. 94.
Platalea nivea, *Cuv. Règ. An.* i. p. 482 ; *Brehm, Vög. Deuts.* p. 600, t. 31, f. 4.
Platalea leucorodius, *Glog. Schelf. Fauna*, p. 50 ; *Naum. Vög. Deuts.* (1838) ix. p. 312, t. 230 ; *Keys. & Bl. Wirbelth. Eur.* p. 81.
Spoonbill, *Bew. Brit. B.* 1804, ii. p. 25, fig.
White Spoonbill, *Mont. Orn. Dict.* ; *Penn. Brit. Zool.* (1812) ii. p. 3, pl. 1 ; *Selby, Brit. Orn.* ii. p. 51 ; *Yarr. Brit. B.* 2 edit. ii. p. 564, fig.
*Pl. enl.* 405 ; *Gould, B. of Eur.* pl. 279.

*a*. Devonshire. Female. From Col. Montagu's collection.
*b*. Sternum. England. Presented by John Ray, Esq.

## iv. *CICONINÆ*.

### 1. CICONIA.

Ciconia, *Linn. S. N.* (1735).
Spenorhynchus, *Hemp. et Ehren.*

## a. Ciconia.

### 1. Ciconia alba. The White Stork.

Ardea ciconia, *Linn. S. N.* i. p. 235.
Ciconia alba, *Bechst. Naturg. Deuts.* iv. p. 82; *Temm. Man. d'Orn.* 1815, p. 358; *Boie, Isis*, 1822, p. 560; *Flem. Brit. An.* p. 97; *Brehm, Vög. Deuts.* p. 573; *Jenyns, Man. B. Vert. An.* p. 194; *Eyton, Cat. Brit. B.* p. 38; *Naum. Vög. Deuts.* (1838) ix. p. 231, t. 228; *Pr. Bonap. Geogr. Comp. List of B.* p. 48; *Keys. & Bl. Wirbelth. Eur.* p. 81; *Macgill. Man. N. H. Ornith.* ii. p. 137; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 99; *G. R. Gray, Gen. of B.* iii. p. 561.
Ciconia albescens, *Brehm, Vög. Deuts.* p. 574.
Ciconia nivea, *Brehm, Vög. Deuts.* p. 574.
Ciconia candida, *Brehm, Vög. Deuts.* p. 575.
Stork, *Mont. Orn. Dict.*
Stork, or White Stork, *Bew. Brit. B.* 1804, ii. p. 32, fig.
White, or Common Stork, *Selby, Brit. Orn.* ii. p. 45.
White Stork, *Yarr. Brit. B.* 2 edit. ii. p. 554, fig.

*Pl. enl.* 866; *Gould, B. of Eur.* pl. 283.

*a*. Great Britain.
*b*. Great Britain. From Mr. Turner's collection.

### Ciconia nigra. The Black Stork.

Ardea nigra, *Linn. Faun. Suec.* p. 163.
Ciconia nigra, *Bechst. Naturg. Deuts.* iv. p. 96; *Temm. Man. d'Orn.* 1815, p. 359; *Leach, Syst. Cat. Mam. & B. B. M.* p. 33; *Flem. Brit. An.* p. 97; *Brehm, Vög. Deuts.* p. 576; *Jenyns, Man. B. Vert. An.* p. 193; *Eyton, Cat. Brit. B.* p. 38; *Naum. Vög. Deuts.* (1838) ix. p. 279, t. 229; *Keys. & Bl. Wirbelth. Eur.* p. 80; *Pr. Bonap. Geogr. Comp. List of B.* p. 48; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 99; *Macgill. Man. N. H. Ornith.* ii. p. 137; *G. R. Gray, Gen. of B.* iii. p. 561.
Ciconia fusca, *Brehm, Vög. Deuts.* p. 576.
Black Stork, *Mont. Linn. Trans.* xii. p. 19; *Selby, Brit. Orn.* ii. p. 48; *Yarr. Brit. B.* 2 edit. ii. p. 558, fig.

*Pl. enl*, 399; *Gould, B. of Eur.* pl. 284.

*a*. Sedgmoor, Somersetshire. From Col. Montagu's collection.

## v. *Tantalinæ*.

### 1. IBIS.

Ibis, *Mœhr. Avium Gen.* p. 71 (1752).
Eudocimus, *Wagl. Isis* (1832), p. 1232.
Falcinellus, *Bechst.* (1802).
Plegadis, *Kaup, Naturl. Syst. der Eur. Thier.* p. 82 (1829).
Tantalides, *Wagl. Isis* (1832), p. 1231.

#### 1. Ibis falcinellus. The Glossy Ibis.

Tantalus igneus, *Gmel. S. N.* i. p. 649.
Tantalus falcinellus, *Gmel. S. N.* i. p. 648.
Ibis sacra, *Temm. Man. d'Orn.* 1815, p. 385.
Tantalus viridis, *Gmel. S. N.* i. p. 648; *Mont. Linn. Trans.* ix. p. 198.
Numenius viridis, *S. G. Gmel. Reis.* i. p. 167.
Plegadis falcinellus, *Kaup, Naturl. Syst.* p. 82.
Ibis ignea, *Leach, Syst. Cat. Mam. & B. B. M.* p. 33.
Tantalides falcinellus, *Wagl. Isis*, 1832, p. 1232.
Ibis falcinellus, *Temm. Man. d'Orn.* 1820, ii. p. 598; *Boie, Isis*, 1822, p. 560; *Flem. Brit. An.* p. 102; *Brehm, Vög. Deuts.* p. 606; *Jenyns, Man. B. Vert. An.* p. 194; *Eyton, Cat. Brit. B.* p. 38; *Naum. Vög. Deuts.* (1836) viii. p. 539, t. 219; *Pr. Bonap. Geogr. Comp. List of B.* p. 49; *Macgill. Man. N. H. Ornith.* ii. p. 140; *Keys. & Bl. Wirbelth. Eur.* p. 78; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 100; *G. R. Gray, Gen. of B.* iii. p. 565.
Ibis castaneus, *Brehm, Vög. Deuts.* p. 606, t. 29, f. 3.
Glossy Ibis, *Mont. Orn. Dict.; Penn. Brit. Zool.* 1812, ii. p. 30, *Selby, Brit. Orn.* ii. p. 56; *Yarr. Brit. B.* 2 edit. ii. p. 571; fig.
*Pl. enl.* 819; *Gould, B. of Eur.* pl. 311.

*a*. Devonshire. Male. From Col. Montagu's collection.
*b*. Devonshire. Female. From Col. Montagu's collection.

# Fam. III. SCOLOPACIDÆ.

## i. *Limosinæ*.

### 1. NUMENIUS.

Numenius, *Mœhr. Avium Gen.* p. 74 (1752).
Cracticornis, *G. R. Gray, List of Gen. of B.* (1841), p. 88.
Phæopus, *Cuv. Règ. An.* (1817) i. p. 485.

### a. Numenius.

#### 1. Numenius arquata. The Common Curlew.

Scolopax arquata, *Linn. S. N.* i. p. 242.
Numenius arquata, *Lath. Ind. Orn.* ii. p. 710 ; *Temm. Man. d'Orn.* 1815, p. 388 ; *Boie, Isis* 1822, p. 560 ; *Leach, Syst. Cat. Mam. & B. B. M.* p. 33 ; *Flem. Brit. An.* p. 101 ; *Brehm, Vög. Deuts.* p. 608 ; *Jenyns, Man. B. Vert. An.* p. 195 ; *Eyton, Cat. Brit. B.* p. 39 ; *Naum. Vög. Deuts.* (1836) viii. p. 476, t. 216 ; *Keys. & Bl. Wirbelth. Eur.* p. 78 ; *Pr. Bonap. Geogr. Comp. List of B.* p. 49 ; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 95 ; *Macgill. Man. N. H. Ornith.* ii. p. 77 ; *G. R. Gray, Gen. of B.* iii. p. 569.
Numenius major, *Steph. Gen. Zool.* xii. p. 26.
Numenius medius, *Brehm, Vög. Deuts.* p. 609.
Curlew, *Bew. Brit. B.* 1804, ii. p. 54, fig.
Common Curlew, *Mont. Orn. Dict.; Penn. Brit. Zool.* 1812, ii. p. 34, pl. 8 ; *Selby, Brit. Orn.* ii. p. 62 ; *Yarr. Brit. B.* 2 edit. ii. p. 577, fig.

*Pl. enl.* 818 ; *Gould, B. of Eur.* pl. 302.

*a*. Great Britain.
*b*. Devonshire. Female. From Col. Montagu's collection.
*c*. Cambridgeshire. Very young. Presented by Mr. J. Baker.

### b. Phæopus.

#### 2. Numenius phæopus. The Whimbrel.

Scolopax phæopus, *Linn. S. N.* i. p. 245.

Numenius phæopus, *Lath. Ind. Orn.* ii. p. 711; *Temm. Man. d'Orn.* 1815, p. 389; *Boie, Isis*, 1822, p. 560; *Flem. Brit. An.* p. 101; *Brehm, Vög. Deuts.* p. 611; *Jenyns, Man. B. Vert. An.* p. 195; *Eyton, Cat. Brit. B.* p. 39; *Naum. Vög. Deuts.* (1836) viii. p. 506; *Keys. & Bl. Wirbelth. Eur.* p. 78; *Pr. Bonap. Geogr. Comp. List of B.* p. 49; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 95; *Macgill. Man. N. H. Ornith.* ii. p. 78; *G. R. Gray, Gen. of B.* iii. p. 569.

Numenius minor, *Leach, Syst. Cat. Mam. & B. B. M.* p. 32.

Numenius islandicus, *Brehm, Vög. Deuts.* p. 610.

Scolopax borealis, *Gmel. S. N.* i. p. 654.

Numenius hudsonicus, *Lath. Ind. Orn.* ii. p. 712.

Phæopus arquatus, *Steph. Gen. Zool.* xii. p. 36.

Whimbrel, *Mont. Orn. Dict.; Bew. Brit. B.* 1804, ii. p. 57, fig.; *Penn. Brit. Zool.* 1812, ii. p. 36, pl. ix.; *Yarr. Brit. B.* 2 edit. ii. p. 583, fig.

Whimbrel Curlew, *Selby, Brit. Orn.* ii. p. 65.

*Pl. enl.* 842; *Gould, B. of Eur.* pl. 303.

*a*. Hayling's Island. Presented by J. W. Tyndale, Esq.
*b*. Devonshire. Female. From Col. Montagu's collection.
*c*. Kent. Female. Presented by N. A. Vigors, Esq.
*d*. Trachea. England.
*e*. Sternum. England. Presented by T. Ingall, Esq.

## 2. LIMOSA.

Limosa, *Briss. Ornith.* v. p. 261 (1760).
Actitis, *Ill. Prodr. Mam. et Av.* p. 262 (1811).
Limicula, *Vieill. Analyse, &c.* p. 56 (1816).
Numenius (pars.), *Linn. S. N.* (1735).
Xenus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 115 (1829).
Terekia, *Pr. Bonap. Geogr. Comp. List of B.* p. 52 (1838).
Simorhynchus, *Keys. & Bl. Wirbelth. Eur.* p. 74 (1840).

### a. LIMOSA.

#### 1. LIMOSA LAPPONICA. The Bar-tailed Godwit.

Limosa rufa, *Briss. Orn.* v. p. 281, t. 21, f. 1; *Temm. Man. d'Orn.* (1815) p. 432; *Boie, Isis*, 1822, p. 560; *Leach, Syst. Cat. Mam. & B. B. M.* p. 32; *Flem. Brit. An.* p. 107; *Brehm, Vög. Deuts.*

p. 628; *Jenyns, Man. B. Vert. An.* p. 205; *Eyton, Cat. Brit. B.* p. 40; *Naum. Vög. Deuts.* (1836) viii. p. 446, t. 215; *Keys. & Bl. Wirbelth. Eur.* p. 74; *Pr. Bonap. Geogr. Comp. List of B.* p. 52; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 87; *Macgill. Man. N. H. Ornith.* ii. p. 80.

Scolopax lapponica, *Linn. S. N.* i. p. 246.
Fedoa rufa, *Steph. Gen. Zool.* xii. p. 77.
Limosa lapponica, *G. R. Gray, Gen. of B.* iii. p. 570.
Scolopax leucophæa, *Lath. Ind. Orn.* ii. p. 719.
Limicula lapponica, *Vieill. N. Dict. d'Hist. Nat.* iii. p. 250.
Totanus leucophæus, *Bechst. Naturg. Deuts.* iv. p. 237.
Totanus gregarius, *Bechst. Naturg. Deuts.* iv. p. 258.
Totanus glottis, *Meyer, Taschenb. Deuts.* ii. p. 372.
Limosa ferruginea, *Pall. Zoogr.* ii. p. 180.
Limosa Meyeri, *Leisler, Nacht. zu Bechst. Naturg. Deuts.* ii. p. 172; *Temm. Man. d'Orn.* 1815, p. 434; *Brehm, Vög. Deuts.* p. 627; *Naum. Vög. Deuts.* (1836) viii. p. 214.
Limosa noveboracensis, *Leach, Syst. Cat. Mam. & B. B. M.* p. 32.
Fedoa Meyeri, *Steph. Gen. Zool.* xii. p. 75.
Fedoa pectoralis, *Steph. Gen. Zool.* xii. p. 79.
Actitis limosa, *Ill. Prod. Mam. et Av.* p. 262.
Godwit, *Bew. Brit. B.* (1804) ii. p. 79, fig.; *Mont. Orn. Dict.*
Red Godwit, *Mont. Orn. Dict.; Bew. Brit. B.* 1804, ii. p. 80, fig.; *Selby, Brit. Orn.* ii. p. 98.
Red Godwit Snipe, *Penn. Brit. Zool.* 1812, ii. p. 51, pl. xii.
Red-breasted Snipe, *Penn. Brit. Zool.* 1812, ii. p. 52; *Mont. Linn. Trans.* ix. p. 198; *Mont. Orn. Dict. Supp.*
Bar-tailed Godwit, *Yarr. Brit. B.* 2 edit. ii. p. 641, fig.

*Pl. enl.* 900; *Gould, B. of Eur.* pl. 306.

*a*. Great Britain. Male. Summer state. From Col. Montagu's collection.
*b*. Great Britain. Summer.
*c*. Kent. Female. Summer. From Col. Montagu's collection.
*d*. Great Britain. In change.
*e*. Norfolk. Male. In change. Presented by Rev. W. Whitear.
*f*. Devonshire. Male. Young. From Col. Montagu's collection.
*g*. Great Britain. Winter.
*h*. Somersetshire. From Col. Montagu's collection.
*i*. Sternum. England. Presented by John Ray, Esq.

### 2. Limosa ægocephala. The Black-tailed Godwit.

Scolopax limosa, *Linn. S. N.* i. p. 244.
Totanus limosa, *Bechst. Naturg. Deuts.* iv. p. 244.
Totanus rufus, *Bechst. Naturg. Deuts.* iv. p. 253.
Limosa melanura, *Leisl. Nacht. zu Bechst. Naturg. Deuts.* ii. p. 150, 157; *Temm. Man. d'Orn.* 1815, p. 429; *Brehm, Vög. Deuts.* p. 627; *Jenyns, Man. B. Vert. An.* p. 203; *Eyton, Cat. Brit. B.* p. 40; *Naum. Vög. Deuts.* (1836) viii. p. 406, t. 212, 213; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 87; *Macgill. Man. N. H. Ornith.* ii. p. 81.
Limicula melanura, *Vieill. N. Dict. d'Hist. Nat.* iii. p. 250.
Scolopax belgica, *Gmel. S. N.* i. p. 663.
Scolopax ægocephala, *Linn. S. N.* i. p. 246.
Totanus ægocephalus, *Bechst. Naturg. Deuts.* iv. p. 234.
Fedoa melanura, *Steph. Gen. Zool.* xii. p. 73.
Limosa jadreca, *Leach, Syst. Cat. Mam. & B. B. M.* p. 32.
Limosa ægocephala. *Leach, Syst. Cat. Mam. & B. B. M.* p. 34; *Flem. Brit. An.* p. 107; *Keys. & Bl. Wirbelth. Eur.* p. 74; *Pr. Bonap. Geogr. Comp. List of B.* p. 52; *G. R. Gray, Gen. of B.* iii. p. 570.
Limosa islandica, *Brehm, Vög. Deuts.* p. 626.
Jadreka Snipe, *Mont. Orn. Dict.*; *Penn. Brit. Zool.* 1812 ii. p. 53.
Red Godwit Snipe, *Penn. Brit. Zool.* 1812, ii. p. 51.
Black-tailed Godwit, *Selby, Brit. Orn.* ii. p. 94; *Yarr. Brit. B.* 2 edit. ii. p. 634, fig.

*Pl. enl.* 874, 916; *Gould, B. of Eur.* pl. 305.

*a*. Lincolnshire. Male. From Col. Montagu's collection.
*b*. Great Britain. Female. From Mr. Gould's collection.
*c*. Great Britain. Male. From Mr. Gould's collection.
*d*. Devonshire. Female. From Col. Montagu's collection.
*e*. Sandgate, Kent. Female.
*f*. Kent. Young.
*g*. Sternum. England. Presented by T. Ingall, Esq.
*h*. Skull. England.

## ii. *Totaninæ*.

### 1. TOTANUS.

Totanus, *Bechst. Naturg. Deuts.* p. (1802).
Ilyornis, *Kaup, Naturl. Syst. der Eur. Thier.* p. 156 (1829).
Glottis, *Nils.*

Gambetta, *Kaup, Naturl. Syst. der Eur. Thier.* p. 54 (1829).
Erythroscelus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 54 (1829).
Rhyacophilus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 140 (1829).
Helodromas, *Kaup, Naturl. Syst. der Eur. Thier.* p. 144 (1829).
Limicula, *Leach, Syst. Cat. Mam. & B. B. M.* p. 32 (1816).
Symphemia, *Rafinq.*
Catoptrophorus, *Pr. Bonap. Syn. B. of U. S.* p. 323 (1828).
Hodites, *Kaup, Naturl. Syst. der Eur. Thier.* p. 155 (1829).

## a. Totanus.

### 1. Totanus fuscus. The Spotted Redshank.

Totanus fuscus, *Leisl. Nacht. zu Bechst. Naturg. Deuts.* i. p. 47; *Temm. Man. d'Orn.* 1815, p. 412; *Boie, Isis* 1822, p. 569; *Flem. Brit. An.* p. 102; *Brehm, Vög. Deuts.* p. 633; *Jenyns, Man. B. Vert. An.* p. 196; *Eyton, Cat. Brit. B.* p. 44; *Naum. Vög. Deuts.* (1836) viii. p. 123, t. 200; *Keys. & Bl. Wirbelth. Eur.* p. 72; *Pr. Bonap. Geogr. Comp. List of B.* p. 51; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 92; *Macgill. Man. N. H. Ornith.* ii. p. 93; *G. R. Gray, Gen. of B.* iii. p. 573.
Scolopax fusca, *Linn. S. N.* i. p. 243.
Scolopax Totanus, *Gmel. S. N.* i. p. 655.
Totanus natans, *Bechst. Naturg. Deuts.* iv. p. 227; *Brehm, Vög. Deuts.* p. 635.
Totanus maculatus, *Bechst. Naturg. Deuts.* iv. p. 203.
Scolopax curonica, *Gmel. S. N.* i. p. 669.
Scolopax cantabrigiensis, *Gmel. S. N.* i. p. 688.
Tringa atra, *Lath. Ind. Orn.* ii. p. 738.
Totanus ater, *Brehm, Vög. Deuts.* p. 634.
Tringa longipes, *Meis. & Schlinz. Vög. der Schweiz.* p. 216.
Totanus Raii, *Leach, Syst. Cat. M. & B. B. M.* p. 31?
Erythroscelus fuscus, *Kaup, Naturl. Syst.* p. 54.
Cambridge Godwit, *Bew. Brit. B.* 1804, ii. p. 84; *Penn. Brit. Zool.* 1812, ii. p. 58.
Spotted Redshank, *Bew. Brit. B.* 1804, ii. p. 88, fig.; *Yarr. Brit. B.* 2 edit. ii. p. 587, fig.
Spotted Snipe, *Mont. Orn. Dict. & Suppl.* pl.; *Penn. Brit. Zool.* 1812, ii. p. 59.

*Pl. enl.* 875; *Gould, B. of Eur.* pl. 309.

a. Suffolk. Presented by Mr. J. Leaman.
b. Kent. Young.

*c.* Somersetshire. Male. From Col. Montagu's collection.
*d.* Kent. Female.
*e.* Devonshire. Female, young.

## b. GAMBETTA.

### 2. TOTANUS CALIDRIS. The Common Redshank.

Scolopax calidris, *Linn. S. N.* i. p. 245.
Totanus calidris, *Bechst. Naturg. Deuts.* iv. p. 216; *Temm. Man. d'Orn.* 1815, p. 415; *Leach, Syst. Cat. M. & B. B. M* p. 31; *Boie, Isis*, 1822, p. 560; *Flem. Brit. An.* p. 102; *Brehm, Vög. Deuts.* p. 637; *Jenyns, Man. B. Vert. An.* p. 196; *Eyton, Cat. Brit. B.* p. 44; *Naum. Vög. Deuts.* (1836) viii. p. 95, t. 199; *Keys. & Bl. Wirbelth. Eur.* p. 62; *Pr. Bonap. Geogr. Comp. List of B.* p. 51; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 93; *Macgill. Man. N. H. Ornith.* ii. p. 93; *G. R. Gray, Gen. of B.* iii. p. 573.
Tringa gambetta, *Gmel. S. N.* i. p. 671.
Tringa striata, *Gmel. S. N.* i. p. 672.
Totanus littoralis, *Brehm, Vög. Deuts.* p. 636.
Totanus striatus, *Brehm, Vög. Deuts.* p. 637.
Tringa variegata, *Brünnich, Orn.* n. 181.
Gambetta calidris, *Kaup, Naturl. Syst.* p. 54.
Redshank, *Mont. Orn. Dict.; Bew. Brit. B.* 1804, ii. p. 91; *Penn. Brit. Zool.* 1812, ii. p. 57, pl. 10.
Redshank Sandpiper, *Selby, Brit. B.* ii. p. 72.
Common Redshank, *Yarr. Brit. B.* 2 edit. ii. p. 591, fig.
*Pl. enl.* 827, 845; *Gould, B. of Eur.* pl. 310.

*a.* Great Britain.
*b.* Kent. Male.
*c.* Lincolnshire. Male. From Col. Montagu's collection.
*d.* Sternum. England. Presented by John Ray, Esq.

## c. HELODROMAS.

### 3. TOTANUS OCHROPUS. The Green Sandpiper.

Tringa ochropus, *Linn. S. N.* i. p. 250.
Totanus ochropus, *Temm. Man. d'Orn.* 1815, p. 420; *Leach, Syst. Cat. Mam. & B. B. M.* p. 30; *Boie, Isis* (1822), p. 650; *Flem. Brit. An.* p. 103; *Brehm, Vög. Deuts.* p. 641; *Jenyns, Man. B. Vert. An.* p. 197; *Eyton, Cat. Brit. B.* p. 44; *Naum. Vög. Deuts.* (1836) viii. p. 59, t. 197; *Keys. & Bl. Wirbelth. Eur.* p. 73;

*Pr. Bonap. Geogr. Comp. List of B.* p. 51; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 93; *Macgill. Man. N. H. Ornith.* ii. p. 94; *G. R. Gray, Gen. of B.* iii. p. 573.
Totanus rivalis, *Brehm, Vög. Deuts.* p. 642.
Totanus leucourus, *Brehm, Vög. Deuts.* p. 643.
Helodromas ochropus, *Kaup, Naturl. Syst.* p. 144.
Green Sandpiper, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 100, fig.; *Penn. Brit. Zool.* (1813) ii. p. 86, pl. 15; *Selby, Brit. Orn.* ii. p. 75; *Yarr. Brit. B.* 2 edit. ii. p. 595, fig.
Wood Sandpiper, *Markw. Linn. Trans.* i. p. 130, pl.

*Pl. enl.* 843; *Gould, B. of Eur.* pl. 315, f. 1.

*a.* Wiltshire. Male. From Col. Montagu's collection.
*b.* Wiltshire. From Col. Montagu's collection.
*c*, *d.* Epping. Presented by Henry Doubleday, Esq.
*e.* Sternum. England. Presented by John Ray, Esq.

## d. RHYACOPHILUS.

### 4. TOTANUS GLAREOLA. The Wood Sandpiper.

Tringa glareola, *Linn. S. N.* i. p. 250.
Totanus glareola, *Temm. Man. d'Orn.* 1815, p. 421; *Boie, Isis* (1822) p. 560; *Flem. Brit. An.* p. 103; *Brehm, Vög. Deuts.* p. 640; *Jenyns, Man. B. Vert. An.* p. 198; *Eyton, Cat. Brit. B.* p. 44; *Naum. Vög. Deuts.* (1836) viii. p. 78, t. 198; *Keys. & Bl. Wirbelth. Eur.* p. 72; *Pr. Bonap. Geogr. Comp. List of B.* 51; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 93; *Macgill. Man. N. H. Ornith.* ii. p. 95; *G. R. Gray, Gen. of B.* iii. p. 573.
Totanus glareola, *Leach, Syst. Cat. Mam. & B. B. M.* p. 31.
Totanus sylvestris, *Brehm, Vög. Deuts.* p. 638.
Totanus palustris, *Brehm, Vög. Deuts.* p. 639.
Tringa littorea, *Linn. Faun. Suec.* p. 66.
Tringa grallatoris, *Mont. Orn. Dict. Append.*
Totanus grallatoris, *Steph. Gen. Zool.* xii. p. 148.
Rhyacophilus glareola, *Kaup, Naturl. Syst.* p. 140.
Wood Sandpiper, *Mont. Orn. Dict. & Suppl.* pl.; *Penn. Brit. Zool.* (1812) ii. p. 88; *Selby, Brit. Orn.* ii. p. 77; *Yarr. Brit. B.* 2 edit. ii. p. 601, fig.
Long-legged Sandpiper, *Mont. Orn. Dict. Append.*

*Gould, B. of Eur.* pl. 315, f. 2.

*a.* Kent. Male. From Dr. Leach's collection.
*b.* Devonshire. Female. From Col. Montagu's collection.

## e. GLOTTIS.

### 5. TOTANUS GLOTTIS. The Greenshank.

Totanus glottis, *Bechst. Naturg. Deuts.* iv. p. 249; *Temm. Man. d'Orn.* 1815, p. 425; *Boie, Isis* (1822), p. 560; *Flem. Brit. An.* p. 104; *Jenyns, Man. B. Vert. An.* p. 200; *Eyton, Cat. Brit. B.* p. 43; *Keys. & Bl. Wirbelth. Eur.* p. 72; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 92; *G. R. Gray, Gen. of B.* iii. p. 573.
Limosa totanus, *Pall. Zoogr.* ii. p. 183.
Scolopax canescens, *Gmel. S. N.* i. p. 668.
Totanus fistulans, *Bechst. Naturg. Deuts.* iv. p. 241.
Totanus griseus, *Bechst. Naturg. Deuts.* iv. p. 231.
Glottis chloropus, *Nils. Orn. Suec.* ii. p. 57; *Brehm, Vög. Deuts.* p. 630; *Pr. Bonap. Geogr. Comp. List of B.* p. 51; *Macgill. Man. N. H. Ornith.* ii. p. 91.
Glottis canescens, *Strickl.*
Limicula glottis, *Leach, Syst. Cat. Mam. & B. B. M.* p. 32.
Totanus chloropus, *Meyer, Vög. Liv. u. Esthlands.* p. 199.
Glottis grisea, *Brehm, Vög. Deuts.* p. 631.
Glottis fistulans, *Brehm, Vög. Deuts.* p. 631, t. 33, f. 2.
Glottis natans, *Koch, Baier. Zool.* i. p. 305.
Limosa glottis, *Pall. Zoogr.* ii. p. 179.
Greenshank, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 86, fig.; *Penn. Brit. Zool.* (1812) ii. p. 55; *Selby, Brit. Orn.* ii. p. 86; *Yarr. Brit. B.* 2 edit. ii. p. 618, fig.
Cinereous Godwit, *Penn. Brit. Zool.* (1813) ii. p. 50, pl. 11.
*Pl. enl.* 876; *Gould, B. of Eur.* pl. 312.

*a*. Kent. Adult.
*b*. Carmarthen. Male. From Col. Montagu's collection.
*c*. London Market. From Mr. J. Baker's collection.
*d*. Sternum. England. Presented by John Ray, Esq.

## 2. TRINGOIDES.

Tringoïdes, *Pr. Bonap. Sagg. Distr. Met. An. Vert.* (1831) p. 58.
Actitis, *Boie, Isis* (1826), p. 979.
Guinetta (*Briss.*), *G. R. Gray, List of Gen. of B.* (1840) p. 68.
Actiturus, *Pr. Bonap. Sagg. Distr. Met. An. Vert.* (1832) p.
Bartramia, *Less. Tr. d'Orn.* p. 553 (1831).

## a. Tringoides.

### 1. Tringoïdes macularia. The Spotted Sandpiper.

Tringa macularia, *Linn. S. N.* i. p. 249.
Totanus macularius, *Temm. Man. d'Orn.* 1815, p. 422; *Boie, Isis* (1822), p. 560; *Flem. Brit. An.* p. 103; *Brehm, Vög. Deuts.* p. 646; *Jenyns, Man. B. Vert. An.* p. 199; *Eyton, Cat. Brit. B.* p. 44.
Actitis macularia, *Boie, Isis* (1826), p. 979; *Naum. Vög. Deuts.* (1836) viii. p. 34, t. 195; *Keys. & Bl. Wirbelth. Eur.* p. 73; *Pr. Bonap. Geogr. Comp. List of B.* p. 51; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 91; *Macgill. Man. N. H. Ornith.* ii. p. 97.
Tringoides macularia, *G. R. Gray, Gen. of B.* iii. p. 574.
Spotted Sandpiper, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 79; *Selby, Brit. Orn.* ii. p. 84; *Yarr. Brit. B.* 2 edit. ii. p. 613, fig.

*Edwards, Birds*, pl. 277, f. 2; *Gould, B. of Eur.* pl. 317.

(Norfolk).

### 2. Tringoïdes hypoleuca. The Common Sandpiper.

Tringa hypoleucus, *Linn. S. N.* i. p. 250.
Totanus hypoleucus, *Temm. Man. d'Orn.* 1815, p. 424; *Flem. Brit. An.* p. 104; *Jenyns, Man. B. Vert. An.* p. 199; *Eyton, Cat. Brit. B.* p. 44.
Tringa leucoptera, *Pall. Zoogr.* ii. p. 196.
Tringa canutus, *Linn. Faun. Suec.* p. 65.
Totanus guinetta, *Leach, Syst. Cat. Mam. & B. B. M.* p. 30.
Actitis hypoleucus, *Boie, Isis* (1822), p. 649; *Brehm, Vög. Deuts.* p. 649, t. 33, f. 4; *Naum. Vög. Deuts.* (1836) viii. p. 7, t. 194; *Keys. & Bl. Wirbelth. Eur.* p. 73; *Pr. Bonap. Geogr. Comp. List of B.* p. 51; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 91; *Macgill. Man. N. H. Ornith.* ii. p. 96.
Actitis cinclus, *Boie, Isis* (1826), p. 327; *Brehm, Vög. Deuts.* p. 648.
Actitis stagnalis, *Brehm, Vög. Deuts.* p. 649.
Guinetta hypoleuca, *G. R. Gray, List of Gen. of B.* (1840) iii. p. 68.
Tringoides hypoleuca, *G. R. Gray, List of Gen. of B.* (1841) iii. p. 88.
Common Sandpiper, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 104, fig.; *Penn. Brit. Zool.* (1812) ii. p. 90, pl. 16, low. fig.; *Selby, Brit. Orn.* ii. p. 81; *Yarr. Brit. B.* 2 edit. ii. p. 607, fig.
Spotted Sandpiper, *Bew. Brit. B.* (1804) ii. p. 111, fig.

*Pl. enl.* 850; *Gould, B. of Eur.* pl. 318.

*a.*
*b.* London Market. Male. From Dr. Leach's collection.
*c.* Pembrokeshire. Female. From Col. Montagu's collection.
*d.* Skull. England. Presented by John Ray, Esq.

## b. ACTITURUS.

3. TRINGOÏDES RUFESCENS. The Buff-breasted Sandpiper.

Tringa rufescens, *Vieill. N. Dict. d'Hist. Nat.* t. 470; *Gal. des Ois.* t. 238; *Yarr. Trans. Linn. Soc.* xvi. p. 109, pl. 11; *Jenyns, Man. B. Vert. An.* p. 214; *Eyton, Cat. Brit. B.* p. 41; *Keys. & Bl. Wirbelth. Eur.* p. 77; *Pr. Bonap. Geogr. Comp. List of B.* p. 50; *Temm. Man. d'Orn.* (1840) iv. p. 408; *Macgill. Man. N. H. Ornith.* ii. p. 68; *G. R. Gray, Gen. of B.* iii. p. 579.
Actitis rufescens, *Schleg. Rev. Crit. des Ois. d'Eur.* p. 92.
The Buff-breasted Tringa, *Selby, Brit. Orn.* ii. p. 142.
The Buff-breasted Sandpiper, *Yarr. Brit. B.* 2 edit. iii. p. 57, fig.
*Gould, B. of Eur.* pl. 326.
(Cambridgeshire and Norfolk).

## iii. *RECURVIROSTRINÆ.*

### 1. RECURVIROSTRA.

Recurvirostra, *Linn. S. N.* (1744).
Trochilus, *Mœhr. Avium Gen.* p. 74 (1752).
Avocetta, *Briss. Orn.* vi. p. 537 (1760).

1. RECURVIROSTRA AVOCETTA. The Avocet.

Recurvirostra avocetta, *Linn. S. N.* i. p. 256; *Temm. Man. d'Orn.* 1815, p. 380; *Leach, Syst. Cat. Mam. & B. B. M.* p. 34; *Boie, Isis* (1822), p. 560; *Flem. Brit. An.* p. 101; *Brehm, Vög. Deuts.* p. 685; *Jenyns, Man. B. Vert. An.* p. 201; *Eyton, Cat. Brit. B.* p. 45; *Naum. Vög. Deuts.* (1836) viii. p. 213, t. 204; *Keys. & Bl. Wirbelth. Eur.* p. 71; *Pr. Bonap. Geogr. Comp. List of B.* p. 54; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 96; *Macgill. Man. N. H. Ornith.* ii. p. 87; *G. R. Gray, Gen. of B.* iii. p. 576.
Recurvirostra fissipes, *Brehm, Vög. Deuts.* p. 686, t. 35, f. 2.
Avocetta europæa, *Dum.*
Avoset, *Bew. Brit. B.* (1804) ii. p. 158, fig.; *Yarr. Brit. B.* 2 edit. ii. p. 624, fig.

Scooping Avoset, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 143; *Selby, Brit. Orn.* ii. p. 90.

*Pl. enl.* 353; *Gould, B. of Eur.* pl. 368.

*a*. South Wales. Male. From Col. Montagu's collection.
*b*. Sternum. England. Presented by John Ray, Esq.

## 2. HIMANTOPUS.

Himantopus, *Briss. Orn.* v. p. 33 (1760).
Macrotarsus, *Lacep. Mem. de l'Inst.* iii. p. (1800—1801).
Hypsibates, *Nitzsch, in Esch. und Gruber, Encycl.* xvi. p. 150 (1827).

### 1. HIMANTOPUS CANDIDUS. The Black-winged Stilt.

Charadrius himantopus, *Linn. S. N.* i. p. 255.
Himantopus melanopterus, *Temm. Man. d'Orn.* (1820), ii. p. 528; *Boie, Isis* (1822), p. 559; *Brehm, Vög. Deuts.* p. 682; *Jenyns, Man. B. Vert. An.* p. 201; *Eyton, Cat. Brit. B.* p. 45; *Pr. Bonap. Geogr. Comp. List. of B.* p. 54; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 96; *Macgill. Man. N. H. Ornith.* ii. p. 88.
Himantopus longipes, *Brehm, Vög. Deuts.* p. 683, t. 35, f. 1.
Himantopus rufipes, *Bechst. Naturg. Deuts.* iv. p. 446, t. 25, f. 1; *Brehm, Vög. Deuts.* p. 681.
Himantopus Plinii, *Flem. Brit. An.* p. 112.
Himantopus atropterus, *Meyer, Taschenb. Deuts.* p. 315; *Temm. Man. d'Orn.* 1815, p. 338.
Himantopus candida, *Bonn. Encyc. Meth.* p. 24; *G. R. Gray, Gen. of B.* iii. p. 577.
Himantopus vulgaris, *Bechst. Ornith. Taschenb.* ii. p. 325.
Hypsibates himantopus, *Nitzsch, in Esch. und Gruber, Encycl.* xvi. p. 150; *Naum. Vög. Deuts.* (1836) viii. p. 193, t. 203; *Keys. & Bl. Wirbelth. Eur.* p. 72.
Charadrius autumnalis, *Hasselq. Iter.* p. 253.
Himantopus albicollis, *Vieill. Faune Franç.* p. 269, t. 117, f. 2.
Long-legged Plover, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 4, fig.; *Penn. Brit. Zool.* (1813) ii. p. 100.
Black-winged Stilt, *Selby, Brit. Ornith.* ii. p. 247; *Yarr. Brit. B.* 2 edit. ii. p. 629, fig.

*Pl. enl.* 878; *Gould, B. of Eur.* pl. 289.

*a*. Great Britain. Male. From Mr. Turner's collection.
*b*. Great Britain. Female. From Mr. Turner's collection.

## iv. *Tringinæ*.

### 1. PHILOMACHUS, *Mœhr.*

Philomachus, *Mœhr. Avium Gen.* p. 76 (1752).
Machetes, *Cuv. Règ. An.* (1817) i. p. 490.
Pavoncella, *Leach, Syst. Cat. Mam. & B. B. M.* p. 29 (1816).

#### 1. Philomachus pugnax. The Ruff.

Tringa pugnax, *Linn. S. N.* i. p. 247; *Temm. Man. d'Orn.* 1815, p. 408; *Flem. Brit. Anim.* p. 110; *Jenyns, Man. B. Vert. Anim.* p. 207; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 91.
Philomachus pugnax, *G. R. Gray, List of Gen. of B.* (1841) p. 89; *Gen. of B.* iii. p. 579.
Totanus pugnax, *Nils.; Savi, Ornit. Tosc.* i. p. 263.
Tringa rufescens, *Bechst. Naturg. Deuts.* iv. p. 332.
Tringa littorea, *Linn. S. N.* i. p. 251.
Tringa Grenovicensis, *Lath. Ind. Orn.* ii. p. 731.
Tringa equestris, *Lath. Ind. Orn.* ii. p. 730.
Tringa variegata, *Brünn. Orn. Bor.* p. 54.
Machetes planiceps, *Brehm, Vög. Deuts.* p. 671.
Machetes alticeps, *Brehm, Vög. Deuts.* p. 670, t. 34, f. 4.
Machetes pugnax, *Cuv. Règ. An.* i. p. 490; *Boie, Isis* (1822), p. 561; *Brehm, Vög. Deuts.* p. 672; *Eyton, Cat. Brit. B.* p. 41; *Naum. Vög. Deuts.* (1834) vii. p. 502, t. 190—193; *Keys. & Bl. Wirbelth. Eur.* p. 75; *Pr. Bonap. Geogr. Comp. List of B.* p. 50; *Macgill. Man. N. H. Ornith.* ii. p. 75.
Pavoncella pugnax, *Leach, Syst. Cat. Mam. & B. B. M.* p. 29.
Ruff, *Mont. Orn. Dict.; Bew. Brit. B.* (1812) ii. p. 95, fig.; *Penn. Brit. Zool.* (1812) ii. p. 71, pl. 14; *Selby, Brit. Orn.* ii. p. 130; *Yarr. Brit. B.* 2 edit. ii. p. 645, fig.
Red-legged Sandpiper, *Bew. Brit. B.* (1804) ii. p. 113, fig.
Greenwich Sandpiper, *Bew. Brit. B.* (1804) ii. p. 108.
Yellow-legged Sandpiper, *Mont. Orn. Dict. App.; Penn. Brit. Zool.* (1812) ii. p. 70.

*Pl. enl.* 305, 306, 300, 844; *Gould, B. of Eur.* pl. 328.

*a*. Great Britain. Male.
*b—g*. Lincolnshire. Males.
*h*. Great Britain. Male. From Col. Montagu's collection.
*i*. Lincolnshire. Male. From Col. Montagu's collection.
*j*. Lincolnshire. Female. From Col. Montagu's collection.
*k*. Edinburgh. From Mr. Bullock's collection.

*l*. Lincolnshire. Female. From Col. Montagu's collection.
*m*. ———. Male.
*n*. Cambridgeshire. Presented by Mr. J. Baker.
*o*, *p*. Two Sterna. England. Presented by T. Ingall, Esq.
*q*. Sternum. England. Presented by John Ray, Esq.

## 2. TRINGA.

Tringa, *Linn. S. N.* (1735).
Calidris, *Cuv. Règ. An.* (1817) i. p. 489.
Canutus, *Brehm* (1830).
Ancylocheilus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 50 (1829).
Leimonites, *Kaup, Naturl. Syst. der Eur. Thier.* p. 37 (1829).
Actodromas, *Kaup, Naturl. Syst. der Eur. Thier.* p. 55 (1829).
Falcinellus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 37 (1829).
Erolia, *Vieill. Analyse, &c.*, p. 55 (1816).
Falcinellus, *Cuv. Reg. An.* (1817) i. p. 486.

### a. CANUTUS.

#### 1. TRINGA CANUTUS. The Knot.

Tringa canutus, *Linn. S. N.* i. p. 251; *Leach, Syst. Cat. Mam. & B. B. M.* p. 29; *Flem. Brit. An.* p. 109; *Jenyns, Man. B. Vert. An.* p. 213; *Eyton, Cat. Brit. B.* p. 41; *Keys. & Bl. Wirbelth. Eur.* p. 76; *Pr. Bonap. Geogr. Comp. List of B.* p. 49; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 88; *Macgill. Man. N. H. Ornith.* ii. p. 67; *G. R. Gray, Gen. of B.* iii. p. 579.
Tringa ferruginea, *Brünn. Orn.* No. 180.
Tringa islandica, *Gmel. S. N.* i. p. 682; *Leach, Syst. Cat. Mam. & B. B. M.* p. 29; *Naum. Vög. Deuts.* (1834) vii. p. 372, t. 183.
Tringa grisea, *Gmel. S. N.* i. p. 681.
Tringa cinerea, *Gmel. S. N.* i. p. 673; *Temm. Man. d'Orn.* 1815, p. 404; *Boie, Isis* (1822), p. 560.
Tringa calidris, *Linn. S. N.* i. p. 253.
Tringa nævia, *Gmel. S. N.* i. p. 681.
Tringa ferruginea, *Meyer, Taschenb. Deuts.* ii. p. 395.
Tringa australis, *Lath. Ind. Orn.* ii. p. 737.
Canutus islandicus, *Brehm, Vög. Deuts.* p. 654.
Canutus cinereus, *Brehm, Vög. Deuts.* p. 655, t. 34, f. 2.
Knot, *Mont. Orn. Dict.; Selby, Brit. Orn.* ii. p. 138; *Yarr. Brit. B.* 2 edit. iii. p. 52, fig.

Red Sandpiper, *Bew. Brit. B.* (1804) ii. p. 116; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) ii. p. 89.
Ash-coloured Sandpiper, *Bew. Brit. B.* (1804) ii. p. 103; *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) ii. p. 78.

*Pl. enl.* 366, 365; *Gould, B. of Eur.* pl. 324.

*a*. Essex. Male. Summer.
*b*. Norfolk. Female. Presented by Rev. W. Whitear.
*c*. ———. Female. Summer. From Col. Montagu's collection.
*d*. Carmarthen. Male. Winter. From Col. Montagu's collection.
*e*. Devonshire. Male. Summer. Presented by W. Comyns, Esq.
*f*. ———. In change.
*g*. ———. Young.
*h*. Carmarthen. Female. Winter. From Col. Montagu's collection.
*i*. Leadenhall Market. From Mr. J. Baker's collection.
*j*. Sternum. England. Presented by John Ray, Esq.

## b. Tringa.

### 2. Tringa maritima. The Purple Sandpiper.

Tringa maritima, *Brünn. Orn. Bor.* No. 182; *Temm. Man. d'Orn.* (1820) p. 619; *Brehm, Vög. Deuts.* p. 651, t. 34, f. 1; *Jenyns, Man. B. Vert. An.* p. 211; *Eyton, Cat. Brit. B.* p. 42; *Naum. Vög. Deuts.* (1834) vii. p. 467, t. 188; *Keys. & Bl. Wirbelth. Eur.* p. 76; *Pr. Bonap. Geogr. Comp. List of B.* p. 49; *Macgill. Man. N. H. Ornith.* ii. p. 67; *G. R. Gray, Gen. of B.* iii. p. 579.
Tringa nigricans, *Mont. Linn. Trans.* iv. p. 40, pl. 2; *Leach, Syst. Cat. Mam. & B. B. M.* p. 30; *Brehm, Vög. Deuts.* p. 652.
Tringa striata, *Flem. Brit. An.* p. 110.
Tringa arquatella, *Pall. Zoogr.* ii. p. 190.
Tringa canadensis, *Lath. Ind. Orn. Suppl.* p. 65.
Tringa littoralis, *Brehm, Vög. Deuts.* p. 652.
Totanus maritimus, *Steph. Gen. Zool.* xii. p. 146.
Knot, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 75, fig.; *Penn. Brit. Zool.* (1812) ii. p. 76.
Black Sandpiper, *Penn. Brit. Zool.* (1812) ii. p. 81.
Purple or Rock Tringa, *Selby, Brit. Orn.* ii. p. 150.
Selninger Sandpiper, *Penn. Brit. Zool.* (1812) ii. p. 80.
Purple Sandpiper. *Yarr. Brit. B.* 2 edit. iii. p. 88, fig.

*Gould, B. of Eur.* pl. 344.

*a*. Somersetshire. Winter. Male. From Col. Montagu's collection.
*b*. Great Britain. Winter. Female. From Col. Montagu's collection.
*c*. Cornwall. Presented by D. W. Mitchell, Esq.
*d*. Sternum. England. Presented by T. Ingall, Esq.
*e*. Sternum. England.

### 3. Tringa pectoralis. The Pectoral Sandpiper.

Tringa pectoralis, *Say, Long's Exped.* i. p. 171; *Pr. Bonap. Syn. of Birds U. S.* p. 318; *Amer. Orn.* iv. p. 43, pl. 23, f. 2; *Jenyns, Man. B. Vert. An.* p. 210; *Eyton, Cat. Brit. B.* p. 41; *Keys. & Bl. Wirbelth. Eur.* p. 77; *Temm. Man. d'Orn.* (1840) iv. p. 397; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 89; *Macgill. Man. N. H. Ornith.* ii. p. 69; *G. R. Gray, Gen. of B.* iii. p. 579.
Pelidna pectoralis, *Pr. Bonap. Geogr. Comp. List of B.* p. 50.
Pectoral Sandpiper, *Eyton, R. Brit. B.* p. 42, fig.; *Yarr. Brit. B.* 2 edit. iii. p. 77, fig.

*Gould, B. of Eur.* pl. 327.

(Breydon Broad, Yarmouth and Penzance).

### 4. Tringa Schinzii. Schinz's Sandpiper.

Tringa Schinzii, *Pr. Bonap. Syn. B. of U. S.* p. ; *Naum. Vög. Deuts.* (1834) vii. p. 453, t. 187? *Eyton, Fauna of Shropshire, Ann. Nat. Hist.* ii. p. 53; *Macgill. Man. N. H. Ornith.* ii. p. 72; *G. R. Gray, Gen. of B.* iii. p. 579.
Pelidna Schinzii, *Pr. Bonap. Geogr. Comp. List of B.* p. 50?
Tringa cinclus minor, *Schleg. Rev. Crit. des Ois. d'Eur.* p. 89?
Tringa pygmæa, *Schinz, Cuv. Règ. Anim. Deuts. Uberpe*, i. p. 782.
Tringa Bonapartei, *Schleg. Rev. Crit. des Ois. d'Eur.* p. 89; *Thomp. Ann. & Mag. Nat. Hist.* (1846) p. 311.
Schinz's Sandpiper, *Yarr. Brit. B.* 2 edit. iii. p. 74, fig.

*Gould, B. of Eur.* pl. 330.

(Stoke Heath, Shropshire, and Ireland).

### 5. Tringa alpina. The Dunlin.

Tringa alpina, *Linn. S. N.* i. p. 249; *Leach, Syst. Cat. Mam. & B. B. M.* p. 30; *Boie, Isis* (1822), p. 561; *Flem. Brit. An.* p. 108; *Naum. Vög. Deuts.* (1834) vii. p. 427, t. 186; *Eyton, Cat. Brit. B.* p. 42.

Tringa cinclus, *Linn. S. N.* i. p. 251; *Leach, Syst. Cat. Mam. & B. B. M.* p. 30; *Keys. & Bl. Wirbelth. Eur.* p. 76; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 89; *Macgill. Man. N. H. Ornith.* ii. p. 70; *G. R. Gray, Gen. of B.* iii. p. 579.

Tringa ruficollis, *Pall. Reis.* iii. p. 700.

Tringa pusilla, *Gmel. S. N.* i. p. 663.

Numenius variabilis, *Bechst. Naturg. Deuts.* iv. p. 141.

Tringa variabilis, *Meyer, Taschenb. Deuts.* ii. p. 397; *Temm. Man. d'Orn.* 1815, p. 395; *Jenyns, Man. B. Vert. An.* p. 209.

Pelidna cinclus, *Pr. Bonap. Geogr. Comp. List. of B.* p. 50.

Pelidna variabilis, *Steph. Gen. Zool.* xii. p. 98; *Brehm, Vög. Deuts.* p. 662.

Pelidna alpina, *Boie, Brehm, Vög. Deuts.* p. 661.

Purre, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 119, fig.; *Penn. Brit. Zool.* (1812) ii. p. 94.

Dunlin, *Bew. Brit. B.* (1804) ii. p. 117, fig.; *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 92; *Yarr. Brit. B.* 2 edit. iii. p. 81, fig.

*Gould, B. of Eur.* pl. 329.

*a*. Carmarthenshire. Summer. Male. From Col. Montagu's collection.
*b*. Cornwall. Young. Male. From Col. Montagu's collection.
*c*. Great Britain. From Col. Montagu's collection.
*d*. Great Britain. Winter. From Col. Montagu's collection.
*e*. Devonshire. Summer. Female.
*f*. Great Britain. In change.
*g*. London Market. Summer. Female.
*h—j*. Hayling Island. Presented by J. W. Tyndale, Esq.
*k*. Cambridgeshire. Presented by Mr. J. Baker.
*l—n*. Sanda, Orkney. Very young. From Mr. J. Baker's collection.
*o*. Sanda. Adult. From Mr. J. Baker's collection.
*p*. Cambridgeshire. From Mr. J. Baker's collection.
*q*. Sternum. England. Presented by John Ray, Esq.

## c. ACTODROMAS.

### 6. TRINGA MINUTA. The Little Stint.

Tringa minuta, *Leisler, Nachtr. zu Bechst. Naturg. Deuts.* i. p. 74; *Temm. Man. d'Orn.* 1815, p. 403; *Boie, Isis* (1822), p. 561; *Flem. Brit. An.* p. 109; *Jenyns, Man. B. Vert. An.* p. 212; *Naum. Vög. Deuts.* (1834) vii. p. 391, t. 184; *Keys. & Bl. Wirbelth. Eur.* p. 77; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 90; *Macgill. Man. N. H. Ornith.* ii. p. 73; *G. R. Gray, Gen. of B.* ii. p. 579.
Tringa cinclus, *Pall. Zoogr.* ii. p. 201.
Tringa pusilla, *Wolf und Meyer, Taschenb.* ii. p. 391.
Tringa Temminckii, *Koch, Baier. Zool.* i. p. 292.
Pelidna minuta, *Boie, Isis* (1826), p. 979; *Brehm, Vög. Deuts.* p. 665; *Pr. Bonap. Geogr. Comp. List of B.* p. 50.
Pelidna pusilla, *Brehm, Vög. Deuts.* p. 666.
Actodromas minuta, *Kaup, Naturl. Syst.* p. 55.
Little Stint, *Bew. Brit. B.* (1804) ii. p. 122, fig.; *Yarr. Brit. B.* 2 edit. ii. p. 66, fig.
Little Sandpiper, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 95.
Brown Sandpiper, *Penn. Brit. Zool.* (1812) ii. p. 93.
Minute Tringa, *Selby, Brit. Orn.* ii. p. 147.

*Gould, B. of Eur.* pl. 332.

*a*. Somersetshire.
*b*. Epping. Summer. Presented by Henry Doubleday, Esq.
*c*. Sternum. England. Presented by T. Ingall, Esq.
*d*. Sternum. England. Presented by John Ray, Esq.
*e*. Skull. England. Presented by John Ray, Esq.

## d. LEIMONITES.

### 7. TRINGA TEMMINCKII. Temminck's Stint.

Tringa Temminckii, *Leisler, Nachtr. zu Bechst. Naturg. Deuts.* i. p. 95; *Temm. Man. d'Orn.* 1815, p. 401; *Boie, Isis* (1822), p. 561; *Jenyns, Man. B. Vert. An.* p. 211; *Naum. Vög. Deuts.* (1834) vii. p. 483, t. 189; *Keys. & Bl. Wirbelth. Eur.* p. 77; *Eyton, Cat. Brit. B.* p. 42; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 90; *Macgill. Man. N. H. Ornith.* ii. p. 73; *G. R. Gray, Gen. of B.* iii. p. 579.
Tringa pusilla, *Lath. Ind. Orn.* ii. p. 737; *Bechst. Naturg. Deuts.* iv. p. 308; *Flem. Brit. An.* p. 108.

Pelidna Temminckii, *Boie, Isis* (1826), p. 979; *Brehm, Vög. Deuts.* p. 667; *Pr. Bonap. Geogr. Comp. List of B.* p. 50.
Leimonites Temminckii, *Kaup, Naturl. Syst.* p. 37.
Little Sandpiper, *Mont. Orn. Dict. App.* pl.
Temminck's Tringa, *Selby, Brit. Orn.* ii. p. 144.
Temminck's Sandpiper, *Eyton, R. Brit. B.* p. 44, fig.
Temminck's Stint, *Yarr. Brit. B.* 2 edit. ii. p. 70, fig.
*Gould, B. of Eur.* pl. 333.

*a.* Devonshire. Winter. From Col. Montagu's collection.

## e. ANCYLOCHEILUS.

### 8. TRINGA SUBARQUATA. The Curlew Sandpiper.

Scolopax subarquata, *Guldenst. Comm. Petrop.* xix. p. 471; *Gmel. S. N.* i. p. 658.
Scolopax africanus, *Gmel. S. N.* i. p. 655.
Numenius subarquata, *Bechst. Naturg. Deuts.* iv. p. 135.
Numenius pygmæus, *Bechst. Naturg. Deuts.* iv. p. 148.
Numenius africanus, *Lath. Ind. Orn.* ii. p. 712.
Tringa pygmæa, *Leach, Syst. Cat. Mam. & B. B. M.* p. 30.
Tringa subarquata, *Temm. Man. d'Orn.* 1815, p. 393; *Boie, Isis* (1822), p. 560; *Flem. Brit. An.* p. 107; *Naum. Vög. Deuts.* (1834) vii. p. 408, t. 185; *Jenyns, Man. B. Vert. An.* p. 208; *Eyton, Cat. Brit. B.* p. 42; *Keys. & Bl. Wirbelth. Eur.* p. 76; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 88; *Macgill. Man. N. H. Ornith.* ii. p. 71; *G. R. Gray, Gen. of B.* iii. p. 579.
Pelidna subarquata, *Cuv., Brehm, Vög. Deuts.* p. 657; *Pr. Bonap. Geogr. Comp. List of B.* p. 50.
Ancylocheilus subarquata, *Kaup, Naturl. Syst.* p. 50.
Tringa falcinella, *Pall. Zoogr.* ii. p. 188.
Tringa ferruginea, *Brünn. Orn. Bor.* No. 180.
Numenius ferrugineus, *Wolf und Meyer, Taschenb.* ii. p. 356.
Pelidna macrorhynchos, *Brehm, Vög. Deuts.* p. 658.
Tringa islandica, *Retz. Faun. Suec.* p. 192.
Scolopax Dethardingii, *Bechst. von Lath. Syn.* v. p. 130, t. 123.
Pigmy Curlew *Mont. Orn. Dict. & Suppl.* pl.
Red Sandpiper, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 89, pl, xvii.
Curlew Tringa, *Selby, Brit. Orn.* ii. p. 157.
Curlew Sandpiper, *Yarr. Brit. B.* 2 edit. ii. p. 47, fig.
*Gould, B. of Eur.* pl. 328.

*a*. Isle of Grain. Summer. From Mr. Gould's collection.
*b*. Orkney. In change. Presented by Dr. Edmonston.
*c*. Epping. Presented by Henry Doubleday, Esq.
*d*. Norfolk. Winter. Presented by the Rev. W. Whitear.
*e*. Yarmouth. Summer. Presented by Mr. C. Hubbard.
*f*. London Market. From Mr. J. Baker's collection.
*g*. Sternum. England. Presented by John Ray, Esq.

## f. LIMICOLA.

### 9. TRINGA PYGMÆA. The Broad-billed Sandpiper.

Numenius pygmæus, *Lath. Ind. Orn.* ii. p. 713.
Tringa platyrhyncha, *Temm. Man. d'Orn.* (1820) ii. p. 616; *Keys. & Bl. Wirbelth. Eur.* p. 90; *Macgill. Man. N. H. Ornith.* ii. p. 72; *G. R. Gray, Gen. of B.* iii. p. 579.
Numenius pusillus, *Bechst. Naturg. Deuts.* iv. p. 152.
Limicola pygmæa, *Koch, Baier. Zool.* i. p. 315; *Naum. Vög. Deuts.* (1836), p. 271, t. 207.
Tringa pygmæa, *Savi, Ornit. Tosc.* ii. p. 291.
Pelidna platyrhyncha, *Cuv., Pr. Bonap. Geogr. Comp. List of B.* p. 50.
Tringa eloriodes, *Vieill. N. Dict. d'Hist. Nat.* xxxiv. p. 465; *Fauna Franc.* p. 287, t. 126, f. 1.
Broad-billed Sandpiper, *Yarr. Brit. B.* 2 edit. ii. p. 61, fig.
*Gould, B. of Eur.* pl. 331.
(Norfolk).

## 3. CALIDRIS.

Calidris, *Cuv. Anat. Comp.* i. *Tab. Sec. Cl. des Ois.* (1799-1800).
Arenaria, *Meyer, Taschenb. Deuts.* ii. p. 326 (1810).

### 1. CALIDRIS ARENARIA. The Sanderling.

Tringa arenaria, *Linn. S. N.* i. p. 255; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 90.
Charadrius calidris, *Linn. S. N.* i. p. 255.
Arenaria calidris, *Meyer, Taschenb. Deuts.* vii. p. 68, t. 59, f. 4.
Arenaria vulgaris, *Bechst. Deuts. Taschenb.* ii. p. 462; *Temm. Man. d'Orn.* 1815, p. 334; *Steph. Gen. Zool.* xi. p. 490, pl. 35.

Calidris arenaria, *Leach, Syst. Cat. Mam. & B. B. M.* p. 28; *Flem. Brit. An.* p. 112; *Brehm, Vög. Deuts.* p. 673; *Naum. Vög. Deuts.* (1834) vii. p. 353, t. 182; *Jenyns, Man. B. Vert. An.* p. 183; *Eyton, Cat. Brit. B.* p. 42; *Pr. Bonap. Geogr. Comp. List of B.* p. 50; *Keys. & Bl. Wirbelth. Eur.* p. 75; *Macgill. Man. N. H. Ornith.* ii. p. 65; *G. R. Gray, Gen. of B.* ii. p. 581.
Charadrius rubidus, *Gmel. S. N.* i. p. 688.
Arenaria grisea, *Bechst. Naturg. Deuts.* iv. p. 368.
Calidris grisea, *Brehm, Vög. Deuts.* p. 674.
Tringa tridactyla, *Pall. Zoogr.* ii. p. 198.
Sanderling, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 1, fig.; *Penn. Brit. Zool.* (1812) ii. p. 106, pl. 18; *Yarr. Brit. B.* 2 edit. ii. p. 491, fig.
Common Sanderling, *Selby, Brit. Orn.* ii. p. 208.

*Gould, B. of Eur.* pl. 335.

*a*. Great Britain.
*b*. Carmarthen. From Col. Montagu's collection.
*c*, *d*. Great Britain.
*e*. Great Britain. Presented by J. Gould, Esq.
*f*. Cornwall. Young. From Col. Montagu's collection.
*g*. Great Britain. Young.
*h*. Inverness. Adult. From Mr. J. Baker's collection.
*i*. Southend. Young. From Mr. J. Baker's collection.
*j*. Sternum. England, Presented by T. Ingall, Esq.

## v. *Scolopacinæ*.

### 1. MACRORAMPHUS.

Macroramphus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 31 (1816).
Lymnodromus, *Pr. Max.* (183 ?)

#### 1. Macroramphus griseus. The Brown Snipe.

Scolopax grisea, *Gmel. S. N.* i. p. 658; *Temm. Man. d'Orn.* (1820) ii. p. 679; *Flem. Brit. An.* p. 106; *Jenyns, Man. B. Vert. An.* p. 207; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 86.
Scolopax noveboracensis, *Gmel. S. N.* i. p. 658.
Scolopax Paykullii, *Nils. Orn. Suec.* ii. p. 106.
Totanus noveboracensis, *Sabine, Frankl. Journ. App.* p. 687.

Macroramphus griseus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 31; *Steph. Gen. Zool.* xii. p. 61, pl. 9; *Eyton, Cat. Brit. B.* p. 40; *Pr. Bonap. Geogr. Comp. List of B.* p. 52; *Keys. & Bl. Wirbelth. Eur.* p. 75; *Macgill. Man. N. H. Ornith.* ii. p. 100; *G. R. Gray, Gen. of B.* iii. p. 582.

Brown Snipe, *Mont. Orn. Dict. & Suppl.* pl.; *Penn. Brit. Zool.* (1812) ii. p. 65; *Yarr. Brit. B.* 2 edit. iii. p. 43, fig.

Red-breasted Snipe, *Mont. Linn. Trans.* iv. p. 198; *Mont. Orn. Dict. Suppl.* pl.; *Eyton, R. Brit. B.* p. 36. fig.

*Gould, B. of Eur.* pl. 323.

*a*. Devonshire. Winter. From Col. Montagu's collection.
*b*. Norfolk. Very young. From Mr. J. Baker's collection.

## 2. GALLINAGO.

Gallinago, *Leach, Syst. Cat. Mam. & B. B. M.* p. 31 (1816).
Numenius, *Linn. S. N.* (1735).
Telmatias, *Boie, Isis* (1826) p. 980.
Ascalopex, *Keys. & Bl. Wirbelth. Eur.* p. 78 (1840).
Pelorychus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 119 (1829).
Enalius, *Kaup, Naturl. Syst. der Eur. Thier.* p. 121 (1829).
Xylocota, *Pr. Bonap.* (1839).
Homoptilura, *G. R. Gray, List of Gen. of B.* (1840) p. 70.
Lymnocryptes, *Kaup, Naturl. Syst. der Eur. Thier.* p. 118 (1829).
Philolimnos, *Brehm, Vög. Deuts.* p. 622 (1831).

### a. GALLINAGO.

#### 1. GALLINAGO MAJOR. The Great Snipe.

Scolopax major, *Gmel. S. N.* i. p. 661; *Temm. Man. d'Orn.* 1815, p. 438; *Flem. Brit. An.* p. 105; *Naum. Vög. Deuts.* (1836) viii. p. 291, t. 208; *Jenyns, Man. B. Vert. An.* p. 205; *Eyton, Cat. Brit. B.* p. 39; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 86.
Gallinago major, *Leach, Syst. Cat. Mam. & B. B. M.* p. 31; *Steph. Gen. Zool.* xii. p. 61, pl. 8; *Pr. Bonap. Geogr. Comp. List of B.* p. 52; *G. R. Gray, Gen. of B.* iii. p. 583.
Gallinago Montagui, *Pr. Bonap. Geogr. Comp. List of B.* p. 52.
Telmatias major, *Brehm, Vög. Deuts.* p. 615.
Telmatias gallinago, *Boie, Isis* (1826), p. 980.
Telmatias nisoria, *Brehm, Vög. Deuts.* p. 616.
Scolopax media, *Frisch. Vög.* t. 228.
Scolopax paludosa, *Retz. Faun. Suec.* p. 175.

Scolopax palustris, *Pall. Zoogr.* ii. p. 173.
Ascalopax major, *Keys. & Bl. Wirbelth. Eur.* p. 78.
Scolopax solitaria, *Macgill. Man. N. H. Ornith.* ii. p. 102.
Great Snipe, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 67; *Penn. Brit. Zool.* (1812) ii. p. 62; *Selby, Brit. Orn.* ii. p. 115; *Yarr. Brit. B.* 2 edit. iii. p. 18, fig.
Solitary Snipe, *Bew. Brit. B.* (1804) ii. p. 67, note.

*Gould, B. of Eur.* pl. 320.

*a.* Suffolk. Male. From Col. Montagu's collection.
*b.* Kent. Male. From Col. Montagu's collection.
*c.* Sternum. England. Presented by John Ray, Esq.

## Enalius (?)

### 2. ? Gallinago Sabinii. Sabine's Snipe.

Scolopax Sabinii, *Vigors, Linn. Trans.* xiv. p. 556, pl. 21; *Jard. & Selby, Illustr. Ornith.* pl. 27; *Flem. Brit. An.* p. 105; *Jenyns, Man. B. Vert. An.* p. 204; *Eyton, Cat. Brit. B.* p. 40; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 86; *Macgill. Man. N. H. Ornith.* ii. p. 102.
Gallinago Sabini, *Pr. Bonap. Geogr. Comp. List of B.* p. 52; *G. R. Gray, Gen. of B.* iii. p. 583.
Ascalopax Sabini, *Keys. & Bl. Wirbelth. Eur.* p. 77.
Enalius Sabini, *Kaup, Naturl. Syst.* p. 121.
Xylocota Sabini, *Pr. Bonap.*
Homoptilura Sabini, *G. R. Gray, List of Gen. of B.* (1840) p. 70.
Sabine's Snipe, *Selby, Brit. Orn.* ii. p. 118; *Yarr. Brit. B.* 2 edit. iii. p. 39, fig.

*Gould, B. of Eur.* pl. 321, f. 1.

(Queen's County, Ireland, and Heron Court, Hampshire).

### 3. Gallinago media. The Common Snipe.

Scolopax gallinago, *Linn. S. N.* i. p. 244; *Temm. Man. d'Orn.* 1815, p. 439; *Flem. Brit. An.* p. 106; *Jenyns, Man. B. Vert. An.* p. 205; *Naum. Vög. Deuts.* (1836) viii. p. 310, t. 209; *Eyton, Cat. Brit. B.* p. 39; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 86; *Macgill. Man. N. H. Ornith.* ii. p. 103.
Telmatias gallinago, *Boie, Isis* (1826), p. 979; *Brehm, Vög. Deuts.* p. 620.
Gallinago media, *Leach, Syst. Cat. Mam. & B. B. M.* p. 31; *Steph. Gen. Zool.* xii. p. 54; *G. R. Gray, Gen. of B.* iii. p. 583.

Gallinago scolopacinus, *Pr. Bonap. Geogr. Comp. List of B.* p. 52.
Scolopax grallinaria, *Gmel. S. N.* i. p. 662.
Ascalopax gallinago, *Keys. & Bl. Wirbelth. Eur.* p. 77.
Telmatias septentrionalis, *Brehm, Vög. Deuts.* p. 619.
Telmatias stagnatilis, *Brehm, Vög. Deuts.* p. 618.
Telmatias Fœrœensis, *Brehm, Vög. Deuts.* p. 617.
Common Snipe, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 68, fig.; *Penn. Brit. Zool.* (1812) ii. p. 60, pl. 13, low. fig.; *Selby, Brit. Orn.* ii. p. 121; *Yarr. Brit. B.* 2 edit. iii. p. 25, fig.

*Pl. enl.* 883; *Gould, B. of Eur.* pl. 321, f. 2.

*a.* Devonshire. Male. From Col. Montagu's collection.
*b.* Ireland. Pale variety.
*c—e.* Cambridgeshire. Very young. Presented by Mr. J. Baker.
*f.* Cambridgeshire. Young. Presented by Mr. J. Baker.
*g.* Sternum. England. Presented by John Ray, Esq.

## b. Pelorychus (?)

### 4. ? Gallinago Brehmii. Brehm's Snipe.

Scolopax Brehmii, *Kaup, Isis* (1823), p. 1147; *Savi, Ornit. Tosc.* ii. p. 315; *Ann. & Mag. Nat. Hist.* (1847) p. 382.
Gallinago Brehmii, *Pr. Bonap. Fauna Italica*, p. , t. 43; *G. R. Gray, Gen. of B.* iii. p. 583; *Jard. Contr. Orn.* (1849) p.
Telmatias Brehmii, *Boie, Brehm, Vög. Deuts.* p. 618.
Pelorychus Brehmii, *Kaup, Naturl. Syst.* p. 119.

(Near Lockerby).

## c. Lymnocryptes.

### 5. Gallinago gallinula. The Jack Snipe.

Scolopax gallinula, *Linn. S. N.* i. p. 244; *Temm. Man. d'Orn.* 1815, p. 440; *Flem. Brit. An.* p. 106; *Jenyns, Man. B. Vert. An.* p. 206; *Naum. Vög. Deuts.* (1836) viii. p. 344, t. 210; *Eyton, Cat. Brit. B.* p. 40; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 86; *Macgill. Man. N. H. Ornith.* ii. p. 104.
Gallinago minima, *Leach, Syst. Cat. Mam. & B. B. M.* p. 31; *Steph. Gen. Zool.* xii. p. 57.
Gallinago gallinula, *Pr. Bonap. Geogr. Comp. List of B.* p. 52; *G. R. Gray, Gen. of B.* iii. p. 583.
Ascalopax gallinula, *Keys. & Bl. Wirbelth. Eur.* p. 77.
Philolimnos stagnatilis, *Brehm, Vög. Deuts.* p. 623.

Philolimnos minor, *Brehm, Vög. Deuts.* p. 624, t. 32, f. 4.
Lymnocryptes gallinula, *Kaup, Naturl. Syst.* p. 118.
Judcock, *Bew. Brit. B.* (1804) ii. p. 78, fig.
Jack Snipe, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 63, pl. 13, upp. fig.; *Selby, Brit. Orn.* ii. p. 125; *Yarr. Brit. B.* 2 edit. iii. p. 33, fig.

*Pl. enl.* 884; *Gould, B. of Eur.* pl. 322.

*a.* Wiltshire. Male. From Col. Montagu's collection.
*b.* Great Britain.
*c, d.* Epping. Presented by H. Doubleday, Esq.
*e, f.* Two Sterna. England. Presented by T. Ingall, Esq.
*g.* Sternum. England. Presented by John Ray, Esq.

## 3. SCOLOPAX.

Scolopax, *Linn. S. N.* (1756).
Rusticula, *Mœhr. Avium Gen.* p. 77 (1752).

### 1. Scolopax rusticola. The Woodcock.

Scolopax rusticola, *Linn. S. N.* i. p. 243; *Temm. Man. d'Orn.* 1815, p. 436; *Flem. Brit. An.* p. 105; *Brehm, Vög. Deuts.* p. 612; *Jenyns, Man. B. Vert. An.* p. 204; *Naum. Vög. Deuts.* (1836) viii. p. 361, t. 211; *Eyton, Cat. Brit. B.* p. 39; *Pr. Bonap. Geogr. Comp. List of B.* p. 53; *Keys. & Bl. Wirbelth. Eur.* p. 78; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 85; *G. R. Gray, Gen. of B.* iii. p. 584.
Scolopax major, *Leach, Syst. Cat. Mam. & B. B. M.* p. 31.
Scolopax pinetorum, *Brehm, Vög. Deuts.* p. 613, t. 32, f. 2.
Scolopax sylvestris, *Brehm, Vög. Deuts.* p. 614.
Rusticola vulgaris, *Vieill. N. Dict. d'Hist. Nat.* iii. p. 348; *Savi, Ornit. Tosc.* ii. p. 304.
Rusticola sylvestris, *Macgill. Man. N. H. Ornith.* ii. p. 105.
Woodcock, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 60, fig.; *Penn. Brit. Zool.* (1812) ii. p. 40, pl. 10, low. fig.; *Selby, Brit. Orn.* ii. p. 107; *Yarr. Brit. B.* 2 edit. iii. p. 1, fig.

*Pl. enl.* 885; *Gould, B. of Eur.* pl. 319.

*a.* Devonshire. Male. From Col. Montagu's collection.
*b.* Devonshire. Female. From Col. Montagu's collection.
*c.* Dorsetshire. Pale variety. From Col. Montagu's collection.
*d.* Farrington. Young. Presented by Sir J. Banks, Bart.
*e.* Trebartha, Cornwall. Small variety. Presented by Francis Rodd, Esq.

## vi. *Phalaropodinæ.*

### 1. PHALAROPUS.

Phalaropus, *Briss. Ornith.* vi. p. 12 (1760).
Crymophilus, *Vieill. Analyse, &c.*, p. 62 (1816).
Lobipes, *Cuv. Règ. An.* (1817) i. p. 495.
Holopodius, *Pr. Bonap. Syn. B. of U. S.* p. (1828).
Amblyrhynchus, *Nutt. Man. of Ornith.* p. (1834).

#### a. PHALAROPUS.

1. PHALAROPUS FULICARIUS. The Grèy Phalarope.

Tringa lobata, *Linn. S. N.* i. p. 249.
Tringa fulicaria, *Linn. S. N.* i. p. 249.
Phalaropus fulicarius, *Pr. Bonap. Geogr. Comp. List of B.* p. 54; *G. R. Gray, Gen. of B.* iii. p. 586.
Phalaropus platyrhynchos, *Temm. Man. d'Orn.* 1815, p. 459; *Brehm, Vög. Deuts.* p. 679; *Naum. Vög. Deuts.* (1836) viii. p. 255, t. 206.
Phalaropus rufescens, *Keys. & Bl. Wirbelth. Eur.* p. 73; *Schley. Rev. Crit. des Ois. d'Eur.* p. 94.
Tringa glacialis, *Gmel. S. N.* i. p. 675.
Phalaropus glacialis, *Lath. Ind. Orn.* ii. p. 776.
Phalaropus rufus, *Bechst. Naturg. Deuts.* iv. p. 381; *Brehm, Vög. Deuts.* p. 678, t. 35, f. 3.
Phalaropus lobatus, *Lath. Ind. Orn.* ii. p. 776; *Flem. Brit. An.* p. 100; *Jenyns, Man. B. Vert. An.* p. 215; *Eyton, Cat. Brit. B.* p. 43; *Macgill. Man. N. H. Ornith.* ii. p. 82.
Phalaropus griseus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 34.
Crymophila rufus, *Vieill. N. Dict. d'Hist. Nat.* viii. p. 521.
Grey Phalarope, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 140, fig.; *Selby, Brit. Orn.* ii. p. 162; *Yarr. Brit. B.* 2 edit. iii. p. 130, fig.
*Gould, B. of Eur.* pl. 337.

*a.* Wiltshire. Winter. From Col. Montagu's collection.
*b.* Devonshire. Winter. From Mr. Bartlett's collection.
*c.* Devonshire. In change. From Mr. Bartlett's collection.
*d.* Brighton. In change. Presented by J. E. Gray, Esq.
*e.* Orkney Islands. Summer. From Mr. Gould's collection.

## b. Lobipes.

### 2. Phalaropus hyperboreus. The Red-necked Phalarope.

Tringa hyperborea, *Linn. S. N.* i. p. 249.
Phalaropus hyperboreus, *Lath. Ind. Orn.* ii. p. 775; *Temm. Man. d'Orn.* 1815, p. 457; *Leach, Syst. Cat. Mam. & B. B. M.* p. 35; *G. R. Gray, Gen. of B.* iii. p. 586.
Phalaropus angustirostris, *Naum. Vög. Deuts.* (1836) viii. p. 240, t. 205.
Phalaropus cinereus, *Wolf und Meyer, Taschenb.* ii. p. 417; *Keys. & Bl. Wirbelth. Eur.* p. 73; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 94.
Tringa fusca, *Gmel. S. N.* i. p. 675.
Phalaropus fuscus, *Lath. Ind. Orn.* ii. p. 776.
Tringa lobata, *Brünn. Orn. Bor.* p. 51.
Lobipes hyperboreus, *Cuv. Règ. An.* (1829) i. p. 532; *Steph. Gen. Zool.* xii. p. 169, pl. 21; *Flem. Brit. An.* p. 100; *Brehm, Vög. Deuts.* p. 676, t. 35, f. 4; *Jenyns, Man. B. Vert. An.* p. 214; *Eyton, Cat. Brit. B.* p. 43; *Pr. Bonap. Geogr. Comp. List of B.* p. 54; *Macgill. Man. N. H. Ornith.* ii. p. 84.
Phalaropus Williamsii, *Simm. Linn. Trans.* viii. p. 264.
Phalaropus ruficollis, *Pall. Zoogr.* ii. p. 203.
Phalaropus cinerascens, *Pall. Zoogr.* ii. p. 203.
Red Phalarope, *Bew. Brit. B.* (1804) ii. p. 139; *Mont. Orn. Dict; Penn. Brit. Zool.* (1812) ii. p. 125.
Red-necked Phalarope, *Yarr. Brit. B.* 2 edit. iii. p. 135, fig.
Red Lobefoot, *Selby, Brit. Orn.* ii. p. 166.

*Pl. enl.* 766; *Gould, B. of Eur.* pl. 336.

*a*. Great Britain. Summer.
*b*. Orkney. Winter.
*c*. London Market. From Mr. J. Baker's collection.
*d*. London Market. Female. From Mr. J. Baker's collection.
*e*. London Market. Young female. From Mr. J. Baker's collection.

# Fam. IV. RALLIDÆ.

## i. *Rallinæ*.

### 1. RALLUS.

Rallus, *Linn. S. N.* (1756).
Biensis, *Pucher. Rev. Zool.* (1845) p. 278.

1. Rallus aquaticus. The Water Rail.

Rallus aquaticus, *Linn. S. N.* i. p. 262; *Flem. Brit. An.* p. 98; *Brehm, Vög. Deuts.* p. 691; *Jenyns, Man. B. Vert. An.* p. 217; *Naum. Vög. Deuts.* (1838) ix. p. 472, t. 235; *Eyton, Cat. Brit. B.* p. 45; *Pr. Bonap. Geogr. Comp. List of B.* p. 53; *Keys. & Bl. Wirbelth. Eur.* p. 68; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 104; *Macgill. Man. N. H. Ornith.* ii. p. 112; *G. R. Gray, Gen. of B.* iii. p. 593.
Scolopax obscura, *S. G. Gmel. Reis.* iii. p. 92, t. 17.
Rallus sericeus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 33.
Rallus germanicus, *Brehm, Vög. Deuts.* p. 690, t. 36, f. 1.
Rail or Water Rail, *Mont. Orn. Dict.*
Water Rail, *Bew. Brit. B.* (1804) ii. p. 13, fig.; *Penn. Brit. Zool.* (1812) ii. p. 114, pl. xx. upp. fig.; *Yarr. Brit. B.* 2 edit. iii. p. 110, fig.
Common Rail, *Selby, Brit. Orn.* ii. p. 172.
*Pl. enl*, 749; *Gould, B. of Eur.* pl. 339.

*a, b.* Devonshire. Male and female. From Col. Montagu's collection.
*c.* Great Britain.
*d.* Cambridgeshire. From Mr. J. Baker's collection.
*e.* Cambridgeshire. Male. From Mr. J. Baker's collection.
*f.* Sternum. England. Presented by T. Ingall, Esq.
*g.* Sternum. England. Presented by John Ray, Esq.

### 2. ORTYGOMETRA.

Ortygometra, *Linn. S. N.* (1744).
Crex, *Bechst. Naturg. Deuts.* iv. p. (1803).
Porzana, *Vieill. Analyse, &c.*, p. 61 (1816).
Zapornia, *Leach, Syst. Cat. Mam. & B. B. M.* p. 34 (1816).
Phalaridion, *Kaup, Naturl. Syst. der Eur. Thier.* p. 173 (1829).
Rallites, *Pucher. Rev. Zool.* (1845) p. 277.

## a. Ortygometra.

### 1. Ortygometra crex. The Land Rail.

Gallinula crex, *Lath. Ind. Orn.* ii. p. 766 ; *Temm. Man. d'Orn.* 1815, p. 444.
Rallus crex, *Linn. S. N.* i. p. 261.
Crex pratensis, *Bechst. Naturg. Deuts.* iv. p. 470; *Brehm, Vög. Deuts.* p. 693; *Jenyns, Man. B. Vert. An.* p. 217; *Naum. Vög. Deuts.* (1838) ix. p. 496, t. 236; *Eyton, Cat. Brit. B.* p. 45; *Pr. Bonap. Geogr. Comp. List of B.* p. 53; *Keys. & Bl. Wirbelth. Eur.* p. 67; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 104; *Macgill. Man. N. H. Ornith.* ii. p. 113.
Ortygometra crex, *Leach, Syst. Cat. Mam. & B. B. M.* p. 34; *Flem. Brit. An.* p. 98; *G. R. Gray, Gen. of B.* iii. p. 593.
Crex herbarum, *Brehm, Vög. Deuts.* p. 694.
Crex alticeps, *Brehm, Vög. Deuts.* p. 694, t. 36, f. 2.
Crake Gallinule, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 119, pl. 20. low. fig.
Meadow or Corn Crake. *Selby, Brit. Orn.* ii. p. 176.
The Land Rail, *Yarr. Brit. B.* 2 edit. iii. p. 92, fig.

*Pl. enl.* 750; *Gould, B. of Eur.* pl. 341.

*a*. Carmarthenshire. From Col. Montagu's collection.
*b*, *c*. Cambridgeshire. Very young. Presented by Mr. J. Baker.
*d*. Cambridgeshire. Male. From Mr. J. Baker's collection.
*e*. Cambridgeshire. Female. From Mr. J. Baker's collection.

## b. Porzana.

### 2. Ortygometra porzana. The Spotted Crake.

Rallus porzana, *Linn. S. N.* i. p. 261.
Gallinula porzana, *Lath. Ind. Orn.* ii. p. 772; *Temm. Man. d'Orn.* 1815, p. 446; *Flem. Brit. An.* p. 99; *Brehm, Vög. Deuts.* p. 697.
Gallinula maculata, *Brehm, Vög. Deuts.* p. 698.
Gallinula punctata, *Brehm, Vög. Deuts.* p. 699, t. 36, f. 3.
Ortygometra maruetta, *Leach, Syst. Cat. Mam. & B. B. M.* p. 34.
Zapornia porzana, *Gould.*
Crex porzana, *Jenyns, Man. B. Vert. An.* p. 218; *Naum. Vög. Deuts.* (1838) ix. p. 523, t. 237; *Eyton, Cat. Brit. B.* p. 46; *Macgill. Man. N. H. Ornith.* ii. p. 114.
Ortygometra porzana, *Steph. Gen. Zool.* xii. p. ; *Pr. Bonap. Geogr. Comp. List of B.* p. 53; *Keys. & Bl. Wirbelth. Eur.* p. 67; *G. R. Gray, Gen. of B.* iii. p. 593.

Spotted Gallinule, *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) ii. p. 117.
Water Crake, *Bew. Brit. B.* (1804) ii. p. 10, fig.
Spotted Crake, *Selby, Brit. Orn.* ii. p. 179; *Yarr. Brit. B.* 2 edit. iii. p. 97, fig.

*Pl. enl.* 751; *Gould, B. of Eur.* pl. 343.

*a*. Devonshire. Male. From Col. Montagu's collection.
*b*. Devonshire. Female. From Col. Montagu's collection.
*c*, *d*. Great Britain. Presented by J. G. Children, Esq.
*e*. Cambridgeshire. Male. From Mr. J. Baker's collection.
*f*. Sternum. England. Presented by T. Ingall, Esq.
*g*. Sternum. England. Presented by John Ray, Esq.

## c. PHALARIDION.

### 3. ORTYGOMETRA MINUTA. The Little Crake.

Rallus minutus, *Pall. Iter.* iii. *App.* p. 700.
Rallus pusillus (*Pall.*), *Gmel. S. N.* i. p. 719.
Gallinula pusilla, *Bechst. Naturg. Deuts.* iv. p. 484; *Temm. Man. d'Orn.* 1815, p. 447; *Flem. Brit. An.* p. 98; *Brehm, Vög. Deuts.* p. 699.
Rallus parvus, *Scop. Ann.* p. 126.
Phalaridion pusillum, *Kaup, Naturl. Syst.* p. 173.
Zapornia minuta, *Leach, Syst. Cat. Mam. & B. B. M.* p. 34.
Gallinula minuta, *Mont. Orn. Dict. Suppl.*; *Brehm, Vög. Deuts.* p. 701.
Gallinula Foljambei, *Mont. Orn. Dict. App.* fig.; *Flem. Brit. An.* p. 99.
Crex pusilla, *Boie, Isis* (1822), p. 561; *Jenyns, Man. B. Vert. An.* p. 219; *Eyton, Cat. Brit. B.* p. 46; *Macgill. Man. N. H. Ornith.* ii. p. 115.
Ortygometra pusilla, *Pr. Bonap. Geogr. Comp. List of B.* p. 53.
Ortygometra minuta, *Keys. & Bl. Wirbelth. Eur.* p. 48; *G. R. Gray, Gen. of B.* iii. p. 593.
Little Gallinule, *Mont. Orn. Dict. Suppl.* fig.
Olivaceous Gallinule, *Mont. Orn. Dict. App.*
Little Crake, *Selby, Brit. Orn.* ii. p. 185; *Yarr. Brit. B.* 2 edit. iii. p. 101, fig.

*Gould, B. of Eur.* pl. 345.

*a*. Ashburton, Devonshire. From Col. Montagu's collection.

4. ORTYGOMETRA BAILLONI. Baillon's Crake.

Rallus Bailloni, *Vieill. N. Dict. d'Hist. Nat.* xxviii. p. 548; *Vieill. Faun. Franc.* p. 332, t. 142, f. 1, 2.
Gallinula Bailloni, *Temm. Man. d'Orn.* (1820) ii. p. 692; *Flem. Brit. An.* p. 99?
Crex pygmæa, *Naum. Vög. Deuts.* (1838) ix. p. 567, t. 239.
Crex Bailloni, *Boie, Isis* (1822), p. 561; *Kaup, Ins. Thier.* ii. p. 346; *Jard. & Selby, Illustr. of Ornith.* pl. 15; *Jenyns, Man. B. Vert. An.* p. 219; *Macgill. Man. N. H. Ornith.* ii. p. 114.
Ortygometra Bailloni, *Steph. Gen. Zool.* xii. p. 228, pl. 27; *Pr. Bonap. Geogr. Comp. List of B.* p. 53.
Ortygometra pygmæa, *Keys. & Bl. Wirbelth. Eur.* p. 48; *G. R. Gray, Gen. of B.* iii. p. 593.
Gallinula pygmæa, *Brehm, Vög. Deuts.* p. 701.
Phalaridion pygmæa, *Kaup, Naturl. Syst.* p. 173.
Crex Foljambei, *Eyton, Cat. Brit. B.* p. 46.
Zapornia Baillonii, *Gould.*
Baillon's Crake, *Selby, Brit. Orn.* ii. p. 182; *Yarr. Brit. B.* 2 edit. iii. p. 106, fig.

*Gould, B. of Eur.* pl. 344.

(Cambridgeshire, Norfolk and Derby).

## ii. *GALLINULINÆ.*

### 1. GALLINULA.

Gallinula, *Briss. Ornith.* vi. p. 2 (1760).
Hydrogallina, *Lacep. Mem. de l'Inst.* (1800—1801).
Stagnicola, *Brehm, Vög. Deuts.* p. 702 (1831).

1. GALLINULA CHLOROPUS. The Moor Hen.

Fulica chloropus, *Linn. S. N.* i. p. 258.
Gallinula chloropus, *Lath. Ind. Orn.* ii. p. 770; *Temm. Man. d'Orn.* 1815, p. 448; *Flem. Brit. An.* p. 99; *Jenyns, Man. B. Vert. An.* p. 220; *Naum. Vög. Deuts.* (1838) ix. p. 587, t. 240; *Eyton, Cat. Brit. B.* p. 46; *Pr. Bonap. Geogr. Comp. List of B.* p. 53; *Keys & Bl. Wirbelth. Eur.* p. 68; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 103; *Macgill. Man. N. H. Ornith.* ii. p. 117; *G. R. Gray, Gen. of B.* iii. p. 599.
Stagnicola septentrionalis, *Brehm, Vög. Deuts.* p. 704.
Stagnicola chloropus, *Brehm, Vög. Deuts.* p. 706, t. 36, f. 4.

Rallus chloropus, *Savi, Ornit. Tosc.* ii. p. 382.
Fulica fusca, *Gmel. S. N.* i. p. 697.
Gallinula fusca, *Lath. Ind. Orn.* ii. p. 771.
Fulica maculata, *Gmel. S. N.* i. p. 701.
Fulica flavipes, *Gmel. S. N.* i. p. 702.
Fulica fistulans, *Gmel. S. N.* i. p. 702.
Common Gallinule, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 121, pl. 22, upp. fig.; *Selby, Brit. Orn.* ii. p. 188.
Water Hen, *Bew. Brit. B.* (1804) ii. p. 128, fig.
Moor-hen, *Yarr. Brit. B.* 2 edit. iii. p. 114, fig.

*Pl. enl.* 877; *Gould, B. of Eur.* pl. 342.

*a*. Great Britain. Male.
*b*. Great Britain. Female.
*c*. Brome, Suffolk. Presented by the Rev. H. Kirby.
*d*, *e*. Cambridgeshire. Presented by Mr. J. Baker.
*f*—*i*. Cambridgeshire. Very young. Presented by Mr. J. Baker.
*j*. Sternum. England. Presented by John Ray, Esq.

## 2. PORPHYRIO.

Porphyrio, *Briss. Ornith.* v. p. 522 (1760).

### 1. Porphyrio martinica. The Martinico Gallinule.

Porphyrio hyacinthinus (*Temm.*), *Thompson, Ann. & Mag. Nat. Hist.* (1846) p. 311.
Fulica martinica, *Linn. S. N.* i. p. 259.
Gallinula martinica, *Lath. Ind. Orn.* ii. p. 769; *Thompson, MSS.*
Porphyrio martinica, *Temm.*

(Ireland).

## 3. FULICA.

Fulica, *Linn. S. N.* (1735).

### 1. Fulica atra. The Common Coot.

Fulica atra, *Linn. S. N.* i. p. 257; *Flem. Brit. An.* p. 100; *Brehm, Vög. Deuts.* p. 709; *Jenyns, Man. B. Vert. An.* p. 221; *Eyton, Cat. Brit. B.* p. 46; *Pr. Bonap. Geogr. Comp. List of B.* p. 53; *Keys. & Bl. Wirbelth. Eur.* p. 68; *Naum. Vög. Deuts.* (1838) ix. p. 635, t. 241; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 102; *Macgill. Man, N. H. Ornith.* ii. p. 118; *G. R. Gray, Gen. of B.* iii. p. 600.

Fulica aterrima, *Retz. Faun. Suec.* p. 199; *Brehm, Vög. Deuts.* p. 710, t. 36, f. 4.
Fulica leucoryx, *Gmel. S. N.* i. p. 703; *Sparrm. Mus. Carls.* t. 12.
Fulica æthiops, *Gmel. S. N.* i. p. 704; *Sparrm. Mus. Carls.* t. 13.
Fulica platyuros, *Brehm, Vög. Deuts.* p. 711.
Coot, *Bew. Brit. B.* (1804) ii. p. 133, fig.
Greater Coot, *Mont. Orn. Dict.*
Common Coot, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 127, pl. 22; *Selby, Brit. Orn.* ii. p. 193; *Yarr. Brit. B.* 2 edit. iii. p. 123, fig.

*Pl. enl.* 197; *Gould, B. of Eur.* pl. 338.

*a.* Devonshire. From Col. Montagu's collection.
*b.* Cambridgeshire. From Mr. J. Baker's collection.

# Order VIII. ANSERES.

Anseres, *Linn.* (1735); *Cuv.* (1795—1796).
Hydrophilæ, pt.—Odontorhynchæ—Platyrhynchæ — Stenorhynchæ Urinatrices, pt., *Mœhr.* (1752).
Nudipedes, pt. — Palmipedes tridactyles — P. tetradactyles, *Schæff.* (1774).
Retipedes, pt.—Plonguers—Palmipedes, pt., *Scop.* (1777).
Palmipedes, *Lath.* (1790).
Anseres — Brachypteres — Serrirostres — Macropteres — Pinnipedes, *Cuv.* (1799—1800).
Grallatores — Alectorides — Lobipedes, pt. — Hygrobatæ, pt., *Illig.* (1811).
Natatores—Longipennes—Tubinares—Lamellisodentati — Steganopodes—Pygopodes—Impennes, *Illig.* (1811).
Palmipedes—Grallatores, pt.—Pinnatipedes, pt., *Temm.* (1815).
Grallatores—Uncirostres—Palmipedes, *Vieill.* (1816).
Natatores—N. Teleopodes—Syndactyli—Urinatores—Dermorhynci — Pelagii — N. Atelopodes — Siphorini — Brachypteri—N. Ptilopteri—Sphenisci, *Vieill.* (1816).
Palmipedes—Plonguers ou Brachypteres—Longipennes ou Grands voiliers—Totipalmes—Lamellirostres, *Cuv.* (1817).
Natatores — Pelagii—Igrobata, pt. — Siforinii—Dermorinchi — Steganopodi—Marangoni—Ditichi—Sfenisci, *Ranz.* (1823).
Grallatores, pt.—Natatores, *Vigors* (1826).
Grallæ—Pyxidirostres, *Pr. Bonap.* (1831).
Anseres — Longipennis — Lamellisodentata—Steganopodes—Pygopodes—Impennis, *Pr. Bonap.* (1831).
Grallatores, pt.—Natatores, *Keys. & Bl.* (1840).
Cribratrices—Urinatrices—Mersatrices, *Macgill.* (1840).

## Fam. I. ANATIDÆ.

### i. *Plectropterinæ.*

### 1. PLECTROPTERUS.

Plectropterus, *Leach*, *Steph. Gen. Zool.* xii. pt. ii. p. 6 (1824).

#### 1. Plectropterus gambensis. The Spur-winged Goose.

Anas gambensis, *Linn. S. N.* i. p. 195.
Anser gambensis, *Jenyns*, *Man. B. Vert. An.* p. 226; *Flem. Brit. An.* p. 128.
Plectropterus gambensis, *Steph. Gen. Zool.* xii. p. 7, pl. 36; *Keys. & Bl. Wirbelth. Eur.* p. 84; *G. R. Gray*, *Gen. of B.* iii. p. 604.
Anser spinosus, *Bonn. Encyc. Meth.* p. 118.
Spur-winged Goose, *Lath. Gen. Syn.* vi. p. 452, pl. 102; *Yarr. Brit. B.* 2 edit. iii. p. 177, fig.
(Cornwall).

### ii. *Anserinæ.*

### 1. CHENALOPEX.

Chenalopex, *Steph. Gen. Zool.* xii. pt. ii. p. 41 (1824).
Tadorna, *Boie*, *Isis* (1826), p. 981.

#### 1. Chenalopex ægyptiaca. The Egyptian Goose.

Anas ægyptiaca, *Linn. S. N.* i. p. 197.
Anser ægyptiacus, *Jenyns*, *Man. B. Vert. An.* p. 225; *Schleg. Rev. Crit. des Ois. d'Eur* p. 111.
Tadorna ægyptiaca, *Boie*, *Isis* (1826), p. 981.
Chenalopex ægyptiaca, *Steph. Gen. Zool.* xii. p. 43, pl. 42; *Pr. Bonap. Geogr. Comp. List of B.* p. 56; *Keys. & Bl. Wirbelth. Eur.* p. 84; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 111; *Macgill. Man. N. H. Ornith.* ii. p. 153; *G. R. Gray*, *Gen. of B.* iii. p. 605.
Bernicla ægyptiacus, *Eyton*, *Cat. Brit. B.* p. 65.

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Anas varia, *Bechst. Ornith. Taschenb.* ii. p. 454.
Anser varius, *Meyer, Taschenb. Deuts. Vög.* ii. p. 562.
Egyptian Goose, *Bew. Brit. B.* (1804) ii. p. 287; *Yarr. Brit. B.* 2 edit. iii. p. 173, fig.

*Pl. enl.* 379; *Gould, B. of Eur.* pl. 353.

(Tweed, at Carham)..

## 2. BERNICLA.

Bernicla, *Steph. Gen. Zool.* xii. p. 45 (1824).
Chloephaga, *Eyton, Monogr. Anat.* (1838).

### a. BERNICLA.

#### 1. BERNICLA LEUCOPSIS. The Bernicle Goose.

Anas erythropus, *Linn. S. N.* i. p. 197.
Anas leucopsis, *Temm. Man. d'Orn.* 1815, p. 531.
Anser leucopsis, *Bechst. Naturg. Deuts.* iv. p. 921; *Jenyns, Man. B. Vert. Anim.* p. 224; *Keys. & Bl. Wirbelth. Eur.* p. 83; *Naum. Vög. Deuts.* (1842) xi. p. 378, t. 291; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 109.
Bernicla leucopsis, *Boie, Isis* (1822), p. 563; *Kaup, Naturl. Syst.* p. 25; *Brehm, Vög. Deuts.* p. 847; *Eyton, Cat. Brit. B.* p. 62; *Pr. Bonap. Geogr. Comp. List of B.* p. 55; *Macgill. Man. N. H. Ornith.* ii. p. 150; *G. R. Gray, Gen. of B.* iii. p. 607.
Anser Bernicla, *Leach, Syst. Cat. Mam. & B. B. M.* p. 37; *Flem. Brit. An.* p. 127; *Pall. Zoogr.* ii. p. 230.
Bernicla erythropus, *Steph. Gen. Zool.* xii. p. 49.
Bernicla, *Bew. Brit. B.* (1804) ii. p. 307, fig.
Bernicle Goose, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 237; *Yarr. Brit. B.* 2 edit. iii. p. 161, fig.
Bernicle Goose or Clakis, *Selby, Brit. Orn.* ii. p. 268.

*Pl. enl.* 855; *Gould, B. of Eur.* pl. 250.

*a.* Devonshire. From Col. Montagu's collection.
*b.* ———. Young. From Mr. Bartlett's collection.
*c.* Cumberland. Male. From Mr. J. Baker's collection.
*d.* Cumberland. Female. From Mr. J. Baker's collection.
*e.* Sternum. England. Presented by John Ray, Esq.

### 2. Bernicla brenta. The Brent Goose.

Bernicla torquata, *Boie, Isis* (1822), p. 363; *Brehm, Vög. Deuts.* p. 851.

Anas bernicla, *Linn. S. N.* i. p. 198; *Temm. Man. d'Orn.* 1815, p. 531.

Anser torquatus, *Frisch, Vög. Deuts.* ii. p. 156; *Nils. Orn. Suec.* p. 117; *Naum. Vög. Deuts.* (1842) xi. p. 391, t. 292; *Jenyns, Man. B. Vert. An.* p. 224.

Bernicla brenta, *Steph. Gen. Zool.* xii. p. 46; *Eyton, Cat. Brit. B.* p. 62; *Pr. Bonap. Geogr. Comp. List of B.* p. 56; *G. R. Gray, Gen. of B.* iii. p. 607.

Anser brenta, *Leach, Syst. Cat. Mam. & B. B. M.* p. 37; *Flem. Brit. An.* p. 127; *Pall. Zoogr.* ii. p. 229; *Keys. & Bl. Wirbelth. Eur.* p. 83.

Anser bernicla, *Illiger, Prod.* p. 277; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 110.

Bernicla glaucogaster, *Brehm, Vög. Deuts.* p. 849.

Bernicla micropus, *Brehm, Vög. Deuts.* p. 849.

Bernicla platyuros, *Brehm, Vög. Deuts.* p. 850, t. 41, f. 3.

Bernicla collaris, *Brehm, Vög. Deuts.* p. 851.

Bernicla melanopsis, *Macgill. Man. N. H. Ornith.* ii. p. 151.

Brent Goose, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 311, fig.; *Penn. Brit. Zool.* (1812) ii. p. 239; *Selby, Brit. Orn.* ii. p. 271; *Yarr. Brit. B.* 2 edit. iii. p. 164, fig.

*Pl. enl.* 342; *Gould, B. of Eur.* pl. 352.

*a*, *b*. Devonshire. From Col. Montagu's collection.
*c*—*e*. Three Tracheæ (imperfect). England.
*f*. Sternum. England.

### 3. Bernicla ruficollis. The Red-breasted Goose.

Anas ruficollis, *Gmel. S. N.* i. p. 511; *Temm. Man. d'Orn.* 1815, p. 533.

Anas torquata, *Gmel. Iter.* i. p. 181, t. 14.

Anser ruficollis, *Pall. Spic.* iv. p. 12, t. 4; *Flem. Brit. An.* p. 128; *Jenyns, Man. B. Vert. An.* p. 225; *Keys. & Bl. Wirbelth. Eur.* p. 83; *Naum. Vög. Deuts.* (1842) xi. p. 408, t. 293; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 111; *Macgill. Man. N. H. Ornith.* ii. p. 152.

Bernicla ruficollis, *Boie, Isis* (1822), p. 563; *Steph. Gen. Zool.* xii. p. 53, pl. 43; *Brehm, Vög. Deuts.* p. 852; *Pr. Bonap. Geogr. Comp. List of B.* p. 56; *Eyton, Cat. Brit. B.* p. 62; *Macgill. Man. N. H. Ornith.* ii. p. 152; *G. R. Gray, Gen. of B.* iii. p. 607.

Red-breasted Goose, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 289, fig.; *Penn. Brit. Zool.* (1812) ii. p. 241; *Selby, Brit. Orn.* ii. p. 275; *Yarr. Brit. B.* 2 edit. iii. p. 171, fig.

*Pall. Spic.* vi. t. 4; *Gould, B. of Eur.* pl. 351.

*a*. Berwick. From Mr. Bullock's collection.

4. BERNICLA CANADENSIS. The Canada Goose.

Anas canadensis, *Linn. S. N.* i. p. 198.
Cygnus canadensis, *Steph. Gen. Zool.* xii. p. 19; *Eyton, Cat. Brit. B.* p. 65; *Jenyns, Man. B. Vert. An.* p. 227.
Anser canadensis, *Flem. Brit. An.* p. 128; *Keys. & Bl. Wirbelth. Eur.* p. 82.
Bernicla canadensis, *G. R. Gray, Gen. of B.* iii. p. 608.
Cygnopsis canadensis, *Brandt.*
Canada Goose, *Bew. Brit. B.* (1804) ii. p. 283; *Yarr. Brit. B.* 2 edit. iii. p. 181, fig.

*Pl. enl.* 346; *Edwards, Birds*, pl. 151.

*a*, *b*. Cumberland. From Mr. J. Baker's collection.

## 3. ANSER.

Anser, *Briss. Orn.* vi. p. 262 (1760).
Cygnus, p. *Linn. S. N.* (1735).
Cygnopsis, *Brandt* (1836).

### a. ANSER.

1. ANSER FERUS. The Grey lag Goose.

Anas Anser (ferus), *Gmel. S. N.* i. p. 510; *Temm. Man. d'Orn.* 1815, p. 526.
Anser ferus, *Steph. Gen. Zool.* xii. p. 28, pl. 41; *Jenyns, Man. B. Vert. An.* p. 222; *G. R. Gray, Gen. of B.* iii. p. 607.
Anser palustris, *Flem. Brit. An.* p. 126; *Eyton, Cat. Brit. B.* p. 62; *Macgill. Man. N. H. Ornith.* ii. p. 147.
Anser cinereus, *Meyer, Taschenb. Deuts.* ii. p. 552; *Boie, Isis* (1822), p. 563; *Brehm, Vög. Deuts.* p. 835; *Pr. Bonap. Geogr. Comp. List of B.* p. 55; *Keys. & Bl. Wirbelth. Eur.* p. 83; *Naum. Vög. Deuts.* (1843) xi. p. 229, t. 285.
Anser sylvestris, *Brehm, Vög. Deuts.* p. 836.

Anser vulgaris, *Pall. Zoogr.* ii. p. 222.
Grey Lag Goose, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 292, fig.; *Penn. Brit. Zool.* (1812) ii. p. 228; *Selby, Brit. Orn.* ii. p. 261; *Yarr. Brit. B.* 2 edit. iii. p. 140, fig.

*Gould, B. of Eur.* pl. 347.

*a.* Great Britain.

### 2. Anser segetum. The Bean Goose.

Anas segetum, *Gmel. S. N.* i. p. 512; *Temm. Man. d'Orn.* 1815, p. 527.
Anser segetum, *Meyer, Taschenb. Deuts.* ii. p. 554; *Leach, Syst. Cat. Mam. & B. B. M.* p. 36; *Boie, Isis* (1822), p. 364; *Steph. Gen. Zool.* xii. p. 26; *Brehm, Vög. Deuts.* p. 838; *Pr. Bonap. Geogr. Comp. List of B.* p. 55; *Eyton, Cat. Brit. B.* p. 61; *Jenyns, Man. B. Vert. An.* p. 222; *Keys. & Bl. Wirbelth. Eur.* p. 83; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 109; *Macgill. Man. N. H. Ornith.* ii. p. 147; *G. R. Gray, Gen. of B.* iii. p. 607.
Anser ferus, *Flem. Brit. An.* p. 126.
Anser arvensis, *Brehm, Vög. Deuts.* p. 839; *Naum. Vög. Deuts.* (1842) xi. p. 277, t. 286.
Anser rufescens, *Brehm, Vög. Deuts.* p. 838.
Anser platyuros, *Brehm, Vög. Deuts.* p. 837.
Bean Goose, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 306; *Penn. Brit. Zool.* (1812) ii. p. 233, pl. 39; *Selby, Brit. Orn.* ii. p. 263; *Yarr. Brit. B.* 2 edit. iii. p. 148, fig.

*Pl. enl.* 985; *Gould, B. of Eur.* pl. 348.

*a, b.* Great Britain.
*c.* Great Britain. Young. From Mr. Bartlett's collection.
*d.* Great Britain. Male. From Mr. J. Baker's collection.
*e, f.* Two tracheæ. England.

### 3. Anser brachyrhynchus. The Pink-footed Goose.

Anser brachyrhnchus, *Baill. Mém. de la Soc. d'emul. d'Abbev.* 1833, p. ; *Temm. Man. d'Orn.* iv. p. 520; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 110; *Macgill. Man. N. H. Ornith.* ii. p. 148; *G. R. Gray, Gen. of B.* iii. p. 607.
Anser phœnicopus, *Bartl. Proc. Z. S.* 1839, p. 3.
Anser segetum, *Naum. Vög. Deuts.* (1842) xi. t. 287.
Pink-footed Goose, *Yarr. Brit. B.* 2 edit. iii. p. 153, fig.

*a*. Great Britain.
*b*. Leadenhall Market. Male. From Mr. J. Baker's collection.
*c*. Leadenhall Market. Female. From Mr. J. Baker's collection.
*d*. Sternum. England. Presented by John Ray, Esq.

4. ANSER ERYTHROPUS. The White-fronted Goose.

Anas albifrons, *Linn. S. N.* i. p. 509; *Temm. Man. d'Orn.* 1815, p. 529.
Anas erythropus, *Linn. Faun. Suec.* No. 116.
Anser albifrons, *Bechst. Naturg. Deuts.* iv. p. 898; *Leach, Syst. Cat. Mam. & B. B. M.* p. 36; *Boie, Isis* (1822), p. 563; *Steph. Gen. Zool.* xii. p. 25; *Brehm, Vög. Deuts.* p. 843; *Pr. Bonap. Geogr. Comp. List of B.* p. 55; *Jenyns, Man. B. Vert. An.* p. 222; *Keys. & Bl. Wirbelth. Eur.* p. 83; *Naum. Vög. Deuts.* (1842) xi. p. 352, t. 289; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 110; *Macgill. Man. N. H. Ornith.* ii. p. 149.
Anser erythropus, *Flem. Brit. An.* p. 127; *Eyton, Cat. Brit. B.* p. 62; *G. R. Gray, Gen. of B.* iii. p. 607.
White-fronted Goose, *Mont. Orn. Dict; Penn. Brit. Zool.* (1812) ii. p. 235; *Yarr. Brit. B.* 2 edit. iii. p. 157.
White-fronted Wild Goose, *Bew. Brit. B.* (1804) ii. p. 305; *Selby, Brit. Orn.* ii. p. 266.
*Gould, B. of Eur.* pl. 289.

*a*. Wiltshire. From Col. Montagu's collection.
*b*. Wales. From Col. Montagu's collection.
*c*. Great Britain.
*d*. Trachea. England.
*e*. Sternum. England. Presented by John Ray, Esq.

## b. CYGNOPSIS.

5. ANSER CYGNOIDES. The Chinese Goose.

Anas cygnoïdes, *Linn. S. N.* i. p. 194.
Cygnus guineensis, *Eyton, Cat. Brit. B.* p. 65; *Jenyns, Man. B. Vert. An.* p. 226.
Cygnus sinensis, *Steph. Gen. Zool.* xii. p. 22, pl. 40.
Anser hispanicus, *Flem. Brit. An.* p. 128.
Anser cygnoides, *Pall. Zoogr.* ii. p. 218; *Keys. & Bl. Wirbelth. Eur.* p. 82; *G. R. Gray, Gen. of B.* iii. p. 607.
Cygnopsis cygnoides, *Brandt.*

Swan Goose, *Bew. Brit. B.* (1804) ii. p. 281.
Chinese Goose, *Lath. Gen. Syn.* vi. p. 447.

*a.* Liphook, Hants. Presented by Thomas Butler, Esq.

## iii. *Cygninæ.*

### 1. CYGNUS.

Cygnus, *Linn. S. N.* (1735).
Olor, *Wagl. Isis* (1832), p. 1234.
Chenopis, *Wagl. Isis* (1832), p. 1234.

#### a. Olor.

##### 1. Cygnus ferus. The Whistling Swan.

Anas cygnus, *Linn. S. N.* i. p. 194; *Temm. Man. d'Orn.* 1815, ii. p. 522.
Cygnus ferus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 37; *Steph. Gen. Zool.* xii. p. 10, pl. 37; *Flem. Brit. An.* p. 126; *Eyton, Cat. Brit. B.* p. 62; *Jenyns, Man. B. Vert. An.* p. 227; *G. R. Gray, Gen. of B.* iii. p. 610.
Cygnus musicus, *Bechst. Naturg. Deuts.* iv. p. 830; *Boie, Isis* (1822), p. 563; *Brehm, Vög. Deuts.* p. 831; *Pr. Bonap. Geogr. Comp. List of B.* p. 55; *Keys. & Bl. Wirbelth. Eur.* p. 82; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 112; *Macgill. Man. N. H. Ornith.* ii. p. 158.
Cygnus melanorhynchus, *Wolf und Meyer, Taschenb.* ii. p. 498.
Olor musicus, *Wagl. Isis* (1832), p. 1234.
Cygnus olor, *Pall. Zoogr.* ii. p. 211.
Cygnus xanthorhinus, *Naum. Vög. Deuts.* (1842) xi. p. 478, t. 296.
Whistling Swan or Wild Swan, *Mont. Orn. Dict.*
Wild Swan, *Bew. Brit. B.* (1804) ii. p. 272; *Penn. Brit. Zool.* (1812) ii. p. 218.
Whistling Swan, *Selby, Brit. Orn.* ii. p. 278.
The Hooper, Elk, or Whistling Swan, *Yarr. Brit. B.* 2 edit. iii. p. 187, fig.
*Gould, B. of Eur.* pl. 355.

*a.* Wiltshire. From Col. Montagu's collection.
*b.* Hayling's Island. Presented by J. B. Tyndale, Esq.
*c.* Great Britain. Young. From Mr. Leadbeater's collection.

2. CYGNUS AMERICANUS. The American Swan.

Cygnus americanus, *Sharpless*, *Amer. Journ. Sci. & Arts*, xxii. p. ; *Audub. B. of Amer.* pl.; *Macgill. Man. N. H. Ornith.* ii. p. 157.

(Edinburgh).

## b. CYGNUS.

3. CYGNUS OLOR. The Mute Swan.

Anas olor, *Gmel. S. N.* i. p. 501; *Temm. Man. d'Orn.* 1815, p. 523.

Cygnus gibbus, *Bechst. Naturg. Deuts.* iv. p. 815; *Brehm, Vög. Deuts.* p. 829.

Cygnus olor, *Boie, Isis* (1822), p. 563; *Steph. Gen. Zool.* xii. p. 15, pl. 38; *Jenyns, Man. B. Vert. An.* p. 228; *Pr. Bonap. Geogr. Comp. List of B.* p. 55; *Keys. & Bl. Wirbelth. Eur.* p. 82; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 110; *Naum. Vög. Deuts.* (1842) xi. p. 442, t. 295; *G. R. Gray, Gen. of B.* iii. p. 610.

Cygnus mansuetus, *Flem. Brit. An.* p. 126.

Cygnus sibilus, *Pall. Zoogr.* ii. p. 215.

Mute Swan, *Bew. Brit. B.* (1804) ii. p. 277, fig.; *Yarr. Brit. B.* 2 edit. iii. p. 205, fig.

Tame Swan, *Penn. Brit. Zool.* (1812) ii. p. 221.

*Pl. enl.* 913; *Gould, B. of Eur.* pl. 354.

*a*. Great Britain.
*b*. Great Britain. Presented by Dr. Dowler.
*c*. Skeleton. England.

? 4. CYGNUS IMMUTABILIS. The Changeless Swan.

Cygnus immutabilis, *Yarr. Proc. Z. S.* 1838, p. 19; *Pr. Bonap. Geogr. Comp. List of B.* p. 55; *Macgill. Man. N. H. Ornith.* ii. p. 156; *G. R. Gray, Gen. of B.* iii. p. 610.

Cygnus olor immutabilis, *Schleg. Rev. Crit. des Ois. d'Eur.* p. 112.

Polish Swan, *Yarr. Brit. B.* 2 edit. iii. p. 225, fig.

(East Coast of England).

5. CYGNUS MINOR. Bewick's Swan.

Cygnus islandicus, *Brehm, Vög. Deuts.* p. 832, t. 41, f. 1.
Cygnus minor, *Keys. & Bl. Wirbelth. Eur.* p. 82; *G. R. Gray, Gen. of B.* iii. p. 610.
Cygnus musicus minor, *Schleg. Rev. Crit. des Ois. d'Eur.* p. 112.
Cygnus melanorhinus, *Naum. Vög. Deuts.* (1842) xi. p. 497, t. 297.
Cygnus Bewickii, *Yarr. Linn. Trans.* 1830, p. 445; *Eyton, Hist. R. Brit. B.* p. 86, fig.; *Eyton, Cat. Brit. B.* p. 63; *Pr. Bonap. Geogr. Comp. List of B.* p. 55; *Jenyns, Man. B. Vert. An.* p. 228; *Macgill. Man. N. H. Ornith.* ii. p. 159.
Cygnus musicus, *Faber, Prodr.* p. 81.
Cygnus olor, β. minor, *Pall. Zoogr.* ii. p. 214.
New species of Swan, *Wing. Trans. Nat. Hist. Soc. North.* i. p. 1.
Bewick's Swan, *Jard. & Selby, Illustr. Ornith.* pl. 95; *Selby, Brit. Orn.* ii. p. 284; *Yarr, Brit. B.* 2 edit. iii. p. 194, fig.

*Gould, B. of Eur.* pl. 356.

*a*. Great Britain. Presented by W. Yarrell, Esq.
*b*. Great Britain. From Mr. Bartlett's collection.
*c*. Skeleton. England.

## iv. *ANATINÆ.*

### 1. TADORNA.

Tadorna, *Flem. Phil. of Zool.* ii. p. 260 (1822).
Vulpanser, *Keys. & Bl. Wirbelth. Eur.* p. 84 (1840).

1. TADORNA VULPANSER. The Common Shieldrake.

Anas tadorna, *Linn. S. N.* i. p. 195; *Temm. Man. d'Orn.* 1815, p. 536; *Leach, Syst. Cat. Mam. & B. B. M.* p. 38; *Naum. Vög. Deuts.* (1842) xi. p. 534, t. 298; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 95.
Anas cornuta, *S. G. Gmel. Reis.* ii. p. 185, t. 19.
Tadorna familiaris, *Boie, Isis* (1822) p. 563.
Tadorna Bellonii, *Steph. Gen. Zool.* xii. p. 72, pl. 45; *Jenyns, Man. B. Vert. An.* p. 229; *Eyton, Cat. Brit. B.* p. 61.
Tadorna vulpanser, *Flem. Brit. An.* p. 122; *Pr. Bonap. Geogr. Comp. List of B.* p. 56; *Macgill. Man. N. H. Ornith.* ii. p. 162; *G. R. Gray, Gen. of B.* iii. p. 613.
Vulpanser tadorna, *Keys. & Bl. Wirbelth. Eur.* p. 84.
Tadorna gibbera, *Brehm, Vög. Deuts.* p. 856, t. 42, f. 1.

Tadorna littoralis, *Brehm, Vög. Deuts.* p. 857.
Tadorna maritima, *Brehm, Vög. Deuts.* p. 858.
Shieldrake, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 341, fig.; *Penn. Brit. Zool.* (1812) ii. p. 256.
Common Shieldrake, *Selby, Brit. Orn.* ii. p. 289.
Common Shelldrake, *Yarr. Brit. B.* 2 edit. iii. p. 235, fig.

*Pl. enl.* 53; *Gould, B. of Eur.* pl. 357.

*a.* Scotland. From Col. Montagu's collection.
*b.* Great Britain.
*c.* Hayling's Island. Presented by J. W. Tyndale, Esq.
*e.* Great Britain. Presented by J. Gould, Esq.
*f, g.* Kirkwall. Very young. From Mr. J. Baker's collection.
*h—k.* Four tracheæ. England.
*l.* Sternum. England. Presented by John Ray, Esq.

## 2. CASARKA.

Casarka, *Pr. Bonap. Geogr. Comp. List of B.* p. 56 (1838).

### 1. Casarka rutila. The Ruddy Shieldrake.

Anas rutila, *Pall. Nov. Comm. Petrop.* xiv. p. 579, t. 22, f. 1; *Naum. Vög. Deuts.* (1842) xi. p. 564, t. 299; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 116.
Anas casarca, *Linn. S. N. App.* iii. p. 224.
Tadorna rutila, *Boie, Isis* (1822), p. 563; *Steph. Gen. Zool.* xii. p. 71; *Brehm, Vög. Deuts.* p. 859; *Jenyns, Man. B. Vert. An.* p. 229; *Eyton, Cat. Brit. B.* p. 61.
Vulpanser rutila, *Keys. & Bl. Wirbelth. Eur.* p. 84.
Tadorna casarca, *Macgill. Man. N. H. Ornith.* ii. p. 163.
Casarca rutila, *Pr. Bonap. Geogr. Comp. List. of B.* p. 56; *G. R. Gray, Gen. of B.* iii. p. 613.
Ferrugineous Duck, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 359.
Red Duck, *Penn. Brit. Zool.* (1812) ii. p. 272 ?
Ruddy or Casarka Shieldrake, *Selby, Brit. Orn.* ii. p. 293.
Ruddy Shieldrake, *Yarr. Brit. B.* 2 edit. iii. p. 230, fig.

*Gould, B. of Eur.* pl. 358.

(Dorsetshire and Suffolk).

## 3. MARECA.

Mareca, *Steph. Gen. Zool.* xii. p. 130 (1824).
Penelope, *Kaup, Naturl. Syst. der Eur. Thier.* p. 31 (1829).

### 1. Mareca penelope. The Wigeon.

Anas penelope, *Linn. S. N.* i. p. 202; *Temm. Man. d'Orn.* 1815, p. 542; *Leach, Syst. Cat. Mam. & B. B. M.* p. 37; *Boie, Isis* (1822), p. 564; *Flem. Brit. An.* p. 124; *Brehm, Vög. Deuts.* p. 874; *Keys. & Bl. Wirbelth. Eur.* p. 84; *Naum. Vög. Deuts.* (1842) xi. p. 724, t. 305; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 114.
Mareca fistularis, *Steph. Gen. Zool.* xii. p. 131, pl. 50.
Mareca penelope, *Selby, Brit. Orn.* ii. p. 324; *Jenyns, Man. B. Vert. An.* p. 236; *Eyton, Cat. Brit. B.* p. 59; *Pr. Bonap. Geogr. Comp. List of B.* p. 65; *Macgill. Man. N. H. Ornith.* ii. p. 174; *G. R. Gray, Gen. of B.* iii. p. 613.
Anas Kagolka, *Gmel. S. N.* i. p. 527; *Brehm, Vög. Deuts.* p. 872.
Anas fistularis, *Brehm, Vög. Deuts.* p. 874.
Wigeon, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 352, fig.; *Penn. Brit. Zool.* (1812) ii. p. 273; *Yarr. Brit. B.* 2 edit. iii. p. 286, fig.
Common Wigeon, *Selby, Brit. Orn.* ii. p. 324.

*Pl. enl.* 825; *Gould, B. of Eur.* pl. 359.

*a*—*c*. Devonshire. From Col. Montagu's collection.
*d*. Trachea. England.
*e*. Trachea England. Presented by T. Ingall, Esq.
*f*. Sternum. England. Presented by T. Ingall, Esq.
*g*. Sternum. England.

### 2. Mareca americana. The American Wigeon.

Anas americana, *Gmel. S. N.* i. p. 526; *Wils. Amer. Orn.* pl. 69, f. 4; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 114.
Mareca americana, *Steph. Gen. Zool.* xii. p. 135; *Thompson, Ann. & Mag. Nat. Hist.* 1845, p. 310; *G. R. Gray, Gen. of B.* iii. p. 613.
American Wigeon, *Yarr. Brit. B.* 2 edit. iii. p. 292, fig.

*Pl. enl.* 955.

(London Market).

## 4. DAFILA.

Dafila, *Leach*, *Steph. Gen. Zool.* xii. p. 126 (1824).
Trachelonetta, *Kaup*, *Naturl. Syst. der Eur. Thier.* p. 115 (1829).
Phasianurus, *Wagl. Isis* (1832), p. 1235.
Pœcilonetta, *Eyton*, *Monogr. of Anat.* p. (1838).

### 1. Dafila acuta. The Pin-tailed Duck.

Anas acuta, *Linn. S. N.* i. p. 202; *Temm. Man. d'Orn.* 1815, p. 540; *Boie*, *Isis* (1822), p. 564; *Flem. Brit. An.* p. 124; *Brehm*, *Vög. Deuts.* p. 866; *Jenyns*, *Man. B. Vert. An.* p. 232; *Keys. & Bl. Wirbelth. Eur.* p. 85; *Naum. Vög. Deuts.* (1842) xi. p. 638, t. 301; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 115.
Dafila caudacuta, *Steph. Gen. Zool.* xii. p. 127, pl. 49.
Dafila acuta, *Eyton*, *Cat. Brit. B.* p. 60; *Pr. Bonap. Geogr. Comp. List of B.* p. 56; *G. R. Gray*, *Gen. of B.* iii. p. 615.
Anas caudacuta, *Leach*, *Syst. Cat. Mam. & B. B. M.* p. 38; *Pall. Zoogr.* ii. p. 280.
Anas longicauda (*Briss.*), *Brehm*, *Vög. Deuts.* p. 868.
Trachelonetta acuta, *Kaup*, *Naturl. Syst.* p. 115.
Anas caudata, *Brehm*, *Vög. Deuts.* p. 869.
Querquedula caudacuta, *Macgill. Man. N. H. Ornith.* ii. p. 170.
Querquedula acuta, *Selby*, *Brit. Orn.* ii. p. 311.
Phasianurus acutus, *Wagl. Isis* (1832), p. 1235.
Pintail Duck, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 360, fig.; *Penn. Brit. Zool.* (1812) ii. p. 266; *Yarr. Brit. B.* 2 edit. iii. p. 253, fig.
Common Pintail, *Selby*, *Brit. Orn.* ii. p. 311.

*Pl. enl.* 954; *Gould*, *B. of Eur.* pl. 365.

*a*. Devonshire. Male. From Col. Montagu's collection.
*b*. Kent. Male.
*c*. Surrey. Female.
*d*. ——— ?
*e*. Trachea. England.
*f*. Sternum. England. Presented by T. Ingall, Esq.
*g*. Sternum. England. Presented by John Ray, Esq.

## 5. ANAS.

Anas, *Linn. S. N.* (1735).
Boschas, *Swains.* (1831).

### 1. Anas boschas. The Wild Duck.

Anas boschas, *Linn. S. N.* i. p. 205; *Temm. Man. d'Orn.* 1815, p. 537; *Boie, Isis* (1822), p. 564; *Steph. Gen. Zool.* xii. p. 84; *Flem. Brit. An.* p. 123; *Brehm, Vög. Deuts.* p. 862; *Jenyns, Man. B. Vert. An.* p. 233; *Pr. Bonap. Geogr. Comp. List of B.* p. 56; *Eyton, Cat. Brit. B.* p. 61; *Keys. & Bl. Wirbelth. Eur.* p. 85; *Naum. Vög. Deuts.* (1842), xi. p. 575, t. 300; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 113; *Macgill. Man. N. H. Ornith.* ii. p. 165; *G. R. Gray, Gen. of B.* iii. p. 615.
Anas fera, *Leach, Syst. Cat. Mam. & B. B. M.* p. 39.
Anas adunca, *Linn. S. N.* i. p. 206; *Jenyns, Man. B. Vert. An.* p. 234; *Don. Brit. Birds*, ix. pl. 218.
Anas archiboschas, *Brehm, Vög. Deuts.* p. 862, t. 42, f. 2.
Anas subboschas, *Brehm, Vög. Deuts.* p. 864.
Anas conboschas, *Brehm, Vög. Deuts.* p. 865.
Common or Wild Duck, *Mont. Orn. Dict.; Selby, Brit. Orn.* ii. p. 305.
Mallard, *Bew. Brit. B.* (1804) ii. p. 327, fig.; *Penn. Brit. Zool.* (1812) ii. p. 258, pl. 43.
Wild Duck, *Yarr. Brit. B.* 2 edit. iii. p. 264, fig.

*Pl. enl.* 776, 777; *Gould, B. of Eur.* pl. 361.

*a*, *b*. Devonshire. From Col. Montagu's collection.
*c*. Surrey.
*d*. Cambridgeshire. Male. From Mr. J. Baker's collection.
*e*. Kirkwall. From Mr. J. Baker's collection.
*f*. Lincolnshire. Variety. Presented by — Dashwood, Esq.
*g*. Isle of Wight. Variety. Presented by — Cole, Esq.
*h*. Great Britain. Variety. From Mr. J. Baker's collection.
*i*. Sternum. England. Presented by T. Ingall, Esq.
*j*—*m*. Four tracheæ. England.
*n*. Sternum. England. Presented by John Ray, Esq.
*o*. Skull. England. Presented by John Ray, Esq.

## 6. QUERQUEDULA.

Querquedula, *Steph. Gen. Zool.* xii. p. 142 (1824).
Nettion, *Kaup, Naturl. Syst. der Eur. Thier.* p. 95 (1829).

### 1. QUERQUEDULA CRECCA. The Teal.

Anas crecca, *Linn. S. N.* i. p. 204; *Temm. Man. d'Orn.* 1815, p. 547; *Leach, Syst. Cat. Mam. & B. B. M.* p. 38; *Boie, Isis* (1822), p. 564; *Flem. Brit. An.* p. 125; *Brehm, Vög. Deuts.* p. 884; *Jenyns, Man. B. Vert. An.* p. 235; *Keys. & Bl. Wirbelth. Eur.* p. 85; *Naum. Vög. Deuts.* (1842) xi. p. 701, t. 304; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 113.
Querquedula crecca, *Steph. Gen. Zool.* xii. p. 146; *Pr. Bonap. Geogr. Comp. List of B.* p. 57; *Eyton, Cat. Brit. B.* p. 60; *Macgill. Man. N. H. Ornith.* ii. p. 167; *G. R. Gray, Gen. of B.* iii. p. 616.
Querquedula subcrecca, *Brehm, Vög. Deuts.* p. 885, t. 42, f. 4.
Querquedula creccoides, *Brehm, Vög. Deuts.* p. 886.
Nettion crecca, *Kaup, Naturl. Syst.* p. 95.
Teal, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 376, fig.; *Penn. Brit. Zool.* (1812) ii. p. 279; *Yarr. Brit. B.* 2 edit. iii. p. 281, fig.
Common Teal, *Selby, Brit. Orn.* ii. p. 315.
*Pl. enl.* 947; *Gould, B. of Eur.* pl. 362.

*a*. Carmarthenshire. From Col. Montagu's collection.
*b*. Great Britain. Presented by W. Yarrell, Esq.
*c*. Kirkwall. From Mr. J. Baker's collection.
*d—f*. Kirkwall. Very young. From Mr. J. Baker's collection.
*g*, *h*. Two tracheæ. England.
*i*. Sternum. England. Presented by T. Ingall, Esq.
*j*. Sternum. England. Presented by John Ray, Esq.
*k*. Skull. England. Presented by John Ray, Esq.

### 2? QUERQUEDULA BIMACULATA. The Bimaculated Duck.

Anas glocitans (non *Pallas*), *Flem. Brit. An.* p. 125; *Jenyns, Man. B. Vert. An.* p. 232; *Temm. Man. d'Orn.* (1840) p. 533.
Anas bimaculata (*Penn.?*), *Keys. & Bl. Wirbelth. Eur.* p. 85; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 113.
Mareca? glocitans, *Steph. Gen. Zool.* xii. p. 140?

Querquedula glocitans, *Vigors*, *Linn. Trans.* xiv. p. 559; *Pr. Bonap. Geogr. Comp. List of B.* p. 57; *Eyton*, *Cat. Brit. B.* p. 60; *Macgill. Man. N. H. Ornith.* ii. p. 168.
Querquedula bimaculata, *G. R. Gray*, *Gen. of B.* iii. p. 616.
Bimaculated Duck, *Penn. Brit. Zool.* (1776) ii. p. 510, pl. 100, f. 287; *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 355; *Penn. Brit. Zool.* (1812) ii. p. 274; *Yarr. Brit. B.* 2 edit. iii. p. 260, fig.; *Zoologist*, 1847, p. 1698.
Bimaculated Teal, *Selby*, *Brit. Orn.* ii. p. 321.

*Gould*, *B. of Eur.* pl. 363.

(Essex, &c.)

## 7. PTEROCYANEA.

Pterocyanea, *Pr. Bonap.* (1842).
Cyanopterus, *Eyton*, *Monogr. Anatidæ*, p. 130 (1838).

### 1. Pterocyanea circia. The Garganey.

Anas querquedula, *Linn. S. N.* i. p. 203; *Temm. Man. d'Orn.* 1815, p. 545; *Leach*, *Syst. Cat. Mam. & B. B. M.* p. 38; *Boie*, *Isis* (1822), p. 564; *Flem. Brit. An.* p. 125; *Jenyns*, *Man.. B. Vert. An.* p. 234; *Keys. & Bl. Wirbelth. Eur.* p. 84; *Naum. Vög. Deuts.* (1842) xi. p. 677, t. 303; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 116.
Anas circia, *Linn. S. N.* i. p. 204.
Querquedula circia, *Steph. Gen. Zool.* xii. p. 143, pl. 51; *Brehm*, *Vög. Deuts.* p. 881; *Eyton*, *Cat. Brit. B.* p. 60; *Macgill. Man. N. H. Ornith.* ii. p. 168.
Cyanopterus circia, *Eyton*, *Monogr. Anatidæ*, p. 130; *Pr. Bonap. Geogr. Comp. List of B.* p. 57.
Pterocyanea circia, *Pr. Bonap.*; *G. R. Gray*, *Gen. of B.* iii. p. 617.
Querquedula glaucopteros, *Brehm*, *Vög. Deuts.* p. 882.
Querquedula scapularis, *Brehm*, *Vög. Deuts.* p. 883.
Garganey, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 374, fig.; *Penn. Brit. Zool.* (1812) ii. p. 277, pl. 46, f. 1; *Yarr. Brit. B.* 2 edit. iii. p. 277, fig.
Garganey Teal, *Selby*, *Brit. Orn.* ii. p. 318.

*Pl. enl.* 946; *Gould*, *B. of Eur.* pl. 364.

*a*. Somersetshire. From. Col. Montagu's collection.
*b*. London Market. Male. From Mr. J. Baker's collection.

*c*. London Market. Female. From Mr. J. Baker's collection.
*d*, *e*. Two tracheæ. England.
*f*. Sternum. England. Presented by T. Ingall, Esq.
*g*. Sternum. England. Presented by John Ray, Esq.

## 8. AIX.

Aix, *Boie*, *Isis* (1828), p. 329.
Dendronessa, *Swains. Fauna Bor. Amer.* ii. p. 497 (1831).
Lampronessa, *Wagl. Isis* (1832), p. 282.

### 1. Aix sponsa. The Summer Duck.

Anas sponsa, *Linn. S. N.* i. p. 207; *Keys. & Bl. Wirbelth. Eur.* p. 84.
Aix sponsa, *Boie*, *Isis* (1828), p. 329; *Pr. Bonap. Geogr. Comp. List of B.* p. 57; *G. R. Gray*, *Gen. of B.* iii. p. 614.
Dendronessa sponsa, *Swains. Faun. Bor. Amer.* p. 446; *Jenyns*, *Man. B. Vert. An.* p. 237.
Lampronessa sponsa, *Wagl. Isis* (1832), p. 282.
Summer Duck, *Lath. Syn.* iii. p. 546.

*Pl. enl.* 980, 981.

(Dorking, Surrey).

## 9. CHAULELASMUS.

Chaulelasmus, *G. R. Gray*, *Pr. Bonap. Geogr. Comp. List of B.* p. 58 (1838).
Chauliodus, *Swains. Fauna Bor. Amer.* p. 440 (1831).
Ktinorhynchus, *Eyton*, *Monogr. Anatidæ*, p. (1838).

### 1. Chaulelasmus strepera. The Gadwall.

Anas strepera, *Linn. S. N.* i. p. 200; *Temm. Man. d'Orn.* 1815, p. 539; *Leach*, *Syst. Cat. Mam. & B. B. M.* p. 38; *Boie*, *Isis* (1822), p. 564; *Steph. Gen. Zool.* xii. p. 103; *Flem. Brit. An.* p. 124; *Brehm*, *Vög. Deuts.* p. 870; *Jenyns*, *Man. B. Vert. An.* p. 231; *Keys. & Bl. Wirbelth. Eur.* p. 85; *Naum. Vög. Deuts.* (1842) xi. p. 659, t. 302.
Anas cinerea, (*Gmel.*), *Brehm*, *Vög. Deuts.* p. 871.
Chauliodus strepera, *Swains. Journ. Roy. Inst.* ii. p. 19; *Eyton*, *Cat. Brit. B.* p. 60.
Ktinorhynchus strepera, *Eyton*, *Monogr. Anatidæ*, p. 137.

Chaulelasmus strepera, *G. R. Gray*, *List of Gen. of B.* (1840) p. 74; *Pr. Bonap. Geogr. Comp. List of B.* p. 58; *G. R. Gray*, *Gen. of B.* iii. p. 617.
Querquedula strepera, *Macgill. Man. N. H. Ornith.* ii. p. 169.
Gadwall, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 350; *Penn. Brit. Zool.* (1812) ii. p. 275; *Yarr. Brit. B.* 2 edit. iii. p. 249, fig.
Common Gadwall, *Selby*, *Brit. Orn.* ii. p. 301.

*Pl. enl.* 958; *Gould*, *B. of Eur.* pl. 366.

*a*. Kent. From Col. Montagu's collection.
*b*. London Market.
*c*. Great Britain.
*d*. Leadenhall Market. Female. From Mr. J. Baker's collection.
*e—g*. Three tracheæ. England.
*h*. Sternum. England. Presented by T. Ingall, Esq.
*i*. Trachea. England. Presented by T. Ingall, Esq.

## 10. SPATULA.

Spatula, *Boie*, *Isis* (1822), p. 564.
Rhynchaspis, *Leach*, *Steph. Gen. Zool.* xii. p. 114 (1824).
Clypeata, *Less. Man. d'Orn.* ii. p. 416 (1828).
Anas, *Swains.* (1831).

### 1. Spatula clypeata. The Shoveler.

Anas clypeata, *Linn. S. N.* i. p. 200; *Temm. Man. d'Orn.* 1815, p. 544; *Leach*, *Syst. Cat. Mam. & B. B. M.* p. 39; *Jenyns*, *Man. B. Vert. An.* p. 230; *Naum. Vög. Deuts.* (1842) xi. p. 747, t. 306; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 115.
Anas rubens, *Gmel. S. N.* i. p. 519.
Spatula clypeata, *Boie*, *Isis* (1822) p. 564; *G. R. Gray*, *Gen. of B.* iii. p. 618.
Rhynchaspis clypeata, *Steph. Gen. Zool.* xii. p. 115, pl. 48; *Eyton*, *Cat. Brit. B.* p. 61; *Pr. Bonap. Geogr. Comp. List of B.* p. 57; *Keys. & Bl. Wirbelth. Eur.* p. 85; *Macgill. Man. N. H. Ornith.* ii. p. 172.
Spathulea clypeata, *Flem. Brit. An.* p. 123.
Clypeata macrorhynchus, *Brehm*, *Vög. Deuts.* p. 876.
Clypeata platyrhynchus, *Brehm*, *Vög. Deuts.* p. 877.
Clypeata pomarina, *Brehm*, *Vög. Deuts.* p. 878.
Clypeata brachyrhynchus, *Brehm*, *Vög. Deuts.* p. 879.
Shoveler, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 345, fig.; *Yarr. Brit. B.* 2 edit. iii. p. 242, fig.

Shoveler Duck, *Penn. Brit. Zool.* (1812) ii. p. 264.
Common Shoveler, *Selby, Brit. Orn.* ii. p. 297.
Red-breasted Shoveler, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 349; *Penn. Brit. Zool.* (1812) ii. p. 265.

*Pl. enl.* 971, 972; *Gould, B. of Eur.* pl. 360.

*a*. Somersetshire. From Col. Montagu's collection.
*b—f*. Lincolnshire. From Col. Montagu's collection.
*g*. Hayling's Island. Presented by G. B. Tyndale, Esq.
*h*. Great Britain.
*i*. Trachea. England. Presented by T. Ingall, Esq.
*j*. Sternum. England. Presented by T. Ingall, Esq.
*k—p*. Six tracheæ. England.
*q*. Sternum. England. Presented by John Ray, Esq.

### 11. CAIRINA.

Cairina, *Flem. Phil. of Zool.* ii. p. 260 (1822).
Moschatus, *Less. Man. d'Orn.* ii. p. 416 (1828).

#### 1. CAIRINA MOSCHATA. The Muscovy Duck.

Anas moschata, *Linn. S. N.* i. p. 199.
Cairina moschata, *Flem. Brit. An.* p. 122; *Jenyns, Man. B. Vert. An.* p. 230; *Eyton, Cat. Brit. B.* p. 65; *Keys. & Bl. Wirbelth. Eur.* p. 85; *G. R. Gray, Gen. of B.* iii. p. 618.
Cairina sylvestris, *Steph. Gen. Zool.* xii. p. 79, pl. 46.
Anas bicolor, *Don. Brit. B.* pl. 212, var.
Muscovy Duck, *Lath. Syn.* iii. p. 476.
Musk Duck, *Bew. Brit. B.* (1804) ii. p. 320.

*Pl. enl.* 989.

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## v. *FULIGULINÆ.*

### 1. BRANTA.

Branta, *Boie, Isis* (1822), p. 564.
Netta, *Kaup, Naturl. Syst. der Eur. Thier.* p. 102 (1829).
Callichen, *Brehm, Vög. Deuts.* p. 921 (1831).
Mergoïdes, *Eyton, Cat. Brit. B.* p. 57 (1836).

### 1. Branta rufina. The Red-crested Whistling Duck.

Anas rufina, *Pall. Reis.* ii. p. 713; *Gmel. S. N.* i. p. 541; *Temm. Man. d'Orn.* 1815, p. 560; *Naum. Vög. Deuts.* (1844) xii. p. 7, t. 307; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 121.
Branta rufina, *Boie, Isis* (1822), p. 564; *G. R. Gray, Gen. of B.* iii. p. 620.
Fuligula rufina, *Steph. Gen. Zool.* xii. p. 188, pl. 54; *Jenyns, Man. B. Vert. An.* p. 240; *Keys. & Bl. Wirbelth. Eur.* p. 87.
Callichen ruficeps, *Brehm, Vög. Deuts.* p. 922.
Callichen rufinus, *Brehm, Vög. Deuts.* p. 924, t. 42, f. 4; *Pr. Bonap. Geogr. Comp. List of B.* p. 58.
Netta rufina, *Kaup, Naturl. Syst.* p. 102.
Mergoides rufina, *Eyton, Cat. Brit. B.* p. 57.
Aythya rufina, *Macgill. Man. N. H. Ornith.* ii. p. 191.
Red-crested Pochard, *Selby, Brit. Orn.* ii. p. 350; *Eyton, R. Brit. B.* p. 77, fig.
Red-crested Whistling Duck, *Yarr. Brit. B.* 2 edit. iii. p. 327, fig. *Pl. enl.* 928; *Gould, B. of Eur.* pl. 369.

*a*. Milford Haven. Presented by the Earl of Cawdor.
*b*. Great Britain. From Mr. Turner's collection.
*c*. Sternum. England. Presented by John Ray, Esq.

## 2. FULIGULA.

Fuligula, *Steph. Gen. Zool.* xii. p. 187 (1824).
Platypus, *Brehm* (1830).
Fulix, *Sundev.* (1836).

### 1. Fuligula cristata. The Tufted Duck.

Anas fuligula, *Linn. S. N.* i. p. 207; *Temm. Man. d'Orn.* 1815, p. 568; *Naum. Vög. Deuts.* (1844) xii. p. 64, t. 310; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 119.
Anas scandiaca, *Gmel. S. N.* i. p. 520.
Anas cristata, *Leach, Syst. Cat. Mam. & B. B. M.* p. 39.
Fuligula cristata, *Steph. Gen. Zool.* xii. p. 190; *Jenyns, Man. B. Vert. An.* p. 244; *Eyton, Cat. Brit. B.* p. 57; *Pr. Bonap. Geogr. Comp. List of B.* p. 58; *Keys. & Bl. Wirbelth. Eur.* p. 87; *Macgill. Man. N. H. Ornith.* ii. p. 189; *G. R. Gray, Gen. of B.* iii. p. 621.

Nyroca fuligula, *Flem. Phil. of Zool.* ii. p. 260; *Flem. Brit. An.* p. 122.
Aythya fuligula, *Boie, Isis* (1822), p. 564; *Brehm, Vög. Deuts.* p. 914.
Aythya cristata, *Brehm, Vög. Deuts.* p. 916.
Platypus fuligula, *Brehm.*
Anas colymbis, *Pall. Zoogr.* ii. p. 266.
Tufted Duck, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 372, fig.; *Penn. Brit. Zool.* (1812) ii. p. 249; *Yarr. Brit. B.* 2 edit. iii. p. 351, fig.
Tufted Pochard, *Selby, Brit. Orn.* ii. p. 357.

*Pl. enl.* 1001; *Gould, B. of Eur.* pl. 370.

*a.* Great Britain. Presented by J. G. Children, Esq.
*b*, *c.* Great Britain. From Mr. Turner's collection.
*d*—*f.* Three tracheæ. England.
*g.* Sternum. England.
*h.* Sternum. England. Presented by John Ray, Esq.

### 2. Fuligula collaris. The Collared Duck.

Anas collaris, *Don. Brit. B.* pl. 147.
Fuligula rufitorquis, *Pr. Bonap. Geogr. Comp. List of B.* p. 58.
Anas fuligula, *Wils. Amer. Orn.* pl. 67, f. 5.
Fuligula collaris, *G. R. Gray, Gen. of B.* iii. p. 621.

(Lincolnshire ?)

### 3. Fuligula marila. The Scaup Duck.

Anas marila, *Linn. S. N.* i. p. 196; *Temm. Man. d'Orn.* 1815, p. 562; *Leach, Syst. Cat. Mam. & B. B. M.* p. 39; *Naum. Vög. Deuts.* (1844) xii. p. 88, t. 311; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 120.
Anas frenata, *Sparrm. Mus. Carls.* t. 38.
Fuligula marila, *Steph. Gen. Zool.* xii. p. 198; *Pr. Bonap. Geogr. Comp. List of B.* p. 58; *Jenyns, Man. B. Vert. An.* p. 243; *Keys. & Bl. Wirbelth. Eur.* p. 87; *Macgill. Man. N. H. Ornith.* ii. p. 188; *G. R. Gray, Gen. of B.* iii. p. 621.
Fuligula Gesneri, *Ray, Eyton, Cat. Brit. B.* p. 58.
Nyroca marila, *Flem. Phil. of Zool.* ii. p. 260; *Flem. Brit. An.* p. 122.

Aythya marila, *Boie*, *Isis* (1822) p. 564; *Brehm*, *Vög. Deuts.* p. 912.
Aythya leuconotus, *Brehm*, *Vög. Deuts.* p. 913.
Aythya islandica, *Brehm*, *Vög. Deuts.* p. 911.
Scaup Duck, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 339, fig.; *Penn. Brit. Zool.* xii. p. 251, pl. 42; *Yarr. Brit. B.* 2 edit. iii. p. 341, fig.
Scaup Pochard, *Selby*, *Brit. Orn.* ii. p. 354.
*Pl. enl.* 1002; *Gould*, *B. of Eur.* pl. 371.

*a*. Hampshire. From Col. Montagu's collection.
*b*. Somersetshire. From Col. Montagu's collection.
*c*. ——— ?
*d*. Milford Haven. Presented by the Earl of Cawdor.
*e*. Cambridgeshire. Male. From Mr. J. Baker's collection.
*f*. Cambridgeshire. Female. From Mr. J. Baker's collection.
*g*, *h*. Two tracheæ. England.

## 3. NYROCA.

Nyroca, *Flem. Phil. of Zool.* ii. p. 260 (1822).
Aythya, *Boie*, *Isis* (1822), p. 564.

### 1. Nyroca ferina. The Pochard.

Anas ferina, *Linn. S. N.* i. p. 203; *Temm. Man. d'Orn.* 1815, p. 564; *Leach*, *Syst. Cat. Mam. & B. B. M.* p. 38; *Naum. Vög. Deuts.* (1844) xii. p. 21, t. 308; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 120.
Fuligula ferina, *Steph. Gen. Zool.* xii. p. 193; *Jenyns*, *Man. B. Vert. An.* p. 241; *Eyton*, *Cat. Brit. B.* p. 57; *Keys. & Bl. Wirbelth. Eur.* p. 87.
Nyroca ferina, *Flem. Phil. of Zool.* ii. p. 260; *Flem. Brit. An.* p. 121; *G. R. Gray*, *Gen. of B.* iii. p. 621.
Aythya ferina, *Boie*, *Isis* (1822), p. 564; *Brehm*, *Vög. Deuts.* p. 920, t. 43, f. 3; *Pr. Bonap. Geogr. Comp. List of B.* p. 58; *Macgill. Man. N. H. Ornith.* ii. p. 191.
Anas rufa, *Gmel. S. N.* i. p. 515.
Aythya erythrocephala, *Brehm*, *Vög. Deuts.* p. 919.
Pochard, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 356, fig.; *Penn. Brit. Zool.* (1812) ii. p. 270; *Yarr. Brit. B.* 2 edit. iii. p. 332, fig.

ASIATIC SOCIETY

Red-headed Pochard, *Selby, Brit. Orn.* ii. p. 347, *Pl. enl.* 803; *Gould, B. of Eur.* pl. 367.

*a*. Somersetshire. Female. From Col. Montagu's collection.
*b*. Devonshire. Male. From Col. Montagu's collection.
*c*. Kent. Male.
*d*. London Market. Male. From Mr. J. Baker's collection.
*e*. London Market. Female. From Mr. J. Baker's collection.
*f*. Trachea. England. Presented by T. Ingall, Esq.
*g*. Sternum. England. Presented by T. Ingall, Esq.
*h*—*j*. Three tracheæ. England.
*k*. Sternum. England. Presented by John Ray, Esq.

? 2. NYROCA FERINOÏDES. Paget's Pochard.

Fuligula ferinoïdes, *Bartl. Proc. Zool. S.* 1847, p. 48; *Ann. & Mag. Nat. Hist.* 1847, p. 422; *Fisher, in Zoologist*, 1847, p. 1778, fig.
Fuligula leucoptera, *Newton, in Zoologist*, 1848, p. 2063.
Fuligula mariloides, *Yarr.*
American Scaup, *Yarr. Brit. B.* 2 edit. iii. p. 347, fig.
A supposed new Duck, *Fisher, in Zoologist*, 1845, p. 1137.
(Leadenhall Market, and Rollesby Broad, near Yarmouth).

3. NYROCA LEUCOPHTHALMOS. The Ferruginous Duck.

Anas nyroca, *Gueld. Nov. Com. Petr.* xiv. p. 403; *Naum. Vög. Deuts.* (1844) xii. p. 41, t. 309; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 120.
Anas ferruginea, *Gmel. S. N.* i. p. 528.
Anas leucopthalmos, *Bechst. Naturg. Deuts.* iv. p. 1009; *Temm. Man. d'Orn.* 1815, p. 571.
Anas africana, *Gmel. S. N.* i. p. 522.
Anas glaucion, *Pall. Zoogr.* ii. p. 268.
Nyroca leucopthalmos, *Flem. Brit. An.* p. 121; *Pr. Bonap. Geogr. Comp. List of B.* p. 58; *G. R. Gray, Gen. of B.* iii. p. 621.
Aythya nyroca, *Boie, Isis* (1822), p. 564; *Brehm, Vög. Deuts.* p. 918; *Macgill. Man. N. H. Ornith.* ii. p. 192.
Fuligula nyroca, *Steph. Gen. Zool.* xii. p. 201, pl. 55; *Kaup, Naturl. Syst. der Eur. Thier.* p. 113; *Jenyns, Man. B. Vert. An.* p. 243; *Eyton, Cat. Brit. B.* p. 57; *Keys. & Bl. Wirbelth. Eur.* p. 87.

Aythya leucophthalmos, *Brehm, Vög. Deuts.* p. 917.
Ferruginous Duck, *Mont. Orn. Dict. Suppl.* pl.; *Yarr. Brit. B.* 2 edit. iii. p. 337, fig.
Nyroca Pochard, *Selby, Brit. Orn.* ii. p. 352.
Olive-tufted Duck, *Sow. Brit. Misc.* i. pl. 21.

*Pl. enl.* 1000.

*a*. London Market. Male. From Mr. Bullock's collection.
*b*. London Market. Female. From Mr. Bullock's collection.
*c*. ——— ? From Mr. J. Baker's collection.
*d*. Norfolk. Female. From Mr. J. Baker's collection.
*e*, *f*. Two tracheæ. England. Presented by T. Ingall, Esq.
*g*. Sternum. England. Presented by T. Ingall, Esq.
*h*. Sternum. England. Presented by John Ray, Esq.

## 4. CLANGULA.

Clangula, *Flem. Phil. of Zool.* ii. p. 260 (1822).
Histrionicus, *Less. Man. d'Orn.* ii. p. 415 (1828).
Glaucion, *Kaup, Naturl. Syst. der Eur. Thier.* p. 53 (1829).
Cosmonessa, *Kaup, Naturl. Syst. der Eur. Thier.* p. 46 (1829).

### 1. Clangula glaucion. The Golden-eye.

Anas clangula, *Linn. S. N.* i. p. 201; *Temm. Man. d'Orn.* 1815, p. 566; *Leach, Syst. Cat. Mam. & B. B. M.* p. 37; *Naum. Vög. Deuts.* (1844) xii. p. 162, t. 316; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 118.
Anas glaucion, *Linn. S. N.* i. p. 401.
Anas hyemalis, *Pall. Zoogr.* ii. p. 270.
Clangula clangula, *Cuv., Boie, Isis* (1822), p. 564; *Flem. Phil. of Zool.* ii. p. 260.
Clangula chrysopthalmos, *Steph. Gen. Zool.* xii. p. 182, pl. 56; *Jenyns, Man. B. Vert. An.* p. 245; *Pr. Bonap. Geogr. Comp. List of B.* p. 58; *Eyton, Cat. Brit. B.* p. 59; *Macgill. Man. N. H. Ornith.* ii. p. 183.
Clangula vulgaris, *Flem. Brit. An.* p. 120.
Glaucion clangula, *Kaup, Naturl. Syst.* p. 53; *Keys. & Bl. Wirbelth. Eur.* p. 86.
Clangula leucomelas, *Brehm, Vög. Deuts.* p. 927.
Clangula peregrina, *Brehm, Vög. Deuts.* p. 929.

Clangula glaucion, *Brehm, Vög. Deuts.* p. 929; *G. R. Gray, Gen. of B.* iii. p. 622.
Golden-eye, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 367, fig.; *Penn. Brit. Zool.* (1812) ii. p. 253; *Yarr. Brit. B.* 2 edit. iii. p. 368, fig.
Morillon, *Bew. Brit. B.* (1804) ii. p. 371; *Penn. Brit. Zool.* (1812) ii. p. 254.
Common Golden-eye Garrot, *Selby, Brit. Orn.* ii. p. 367.

*Pl. enl.* 802; *Gould, B. of Eur.* pl. 379.

*a, b.* Carmarthenshire. From Col. Montagu's collection.
*c—e.* Wales. Presented by the Earl of Cawdor.
*f.* Great Britain. Presented by J. G. Children, Esq.
*g.* Norfolk. Male. From Mr. J. Baker's collection.
*h—m.* Six tracheæ. England.
*n.* Sternum. England. Presented by John Ray, Esq.
*o.* Norfolk. Female. From Mr. J. Baker's collection.

### 2. Clangula histrionica. The Harlequin Duck.

Anas histrionica, *Linn. S. N.* i. p. 204; *Temm. Man. d'Orn.* 1815, p. 574; *Naum. Vög. Deuts.* (1844) xii. p. 199, t. 318; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 119.
Anas minuta, *Linn. S. N.* i. p. 204.
Clangula histrionica, *Boie, Isis* (1822), p. 564; *Flem. Phil. of Zool.* ii. p. 260; *Steph. Gen. Zool.* xii. p. 180, pl. 57; *Flem. Brit. An.* p. 120; *Pr. Bonap. Geogr. Comp. List of B.* p. 58; *Jenyns, Man. B. Vert. An.* p. 246; *Eyton, Cat. Brit. B.* p. 59; *Macgill. Man. N. H. Ornith.* ii. p. 184; *G. R. Gray, Gen. of B.* iii. p. 622.
Harelda histrionica, *Keys. & Bl. Wirbelth. Eur.* p. 87.
Cosmonessa histrionica, *Kaup, Naturl. Syst.* p. 40.
Harlequin Duck, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 269; *Yarr. Brit. B.* 2 edit. iii. p. 363, fig.; *Eyton, R. Brit. B.* p. 84, fig.
Harlequin Garnot, *Selby, Brit. Orn.* ii. p. 371.

*Pl. enl.* 798, 799; *Gould, B. of Eur.* pl. 381.

(North of Scotland, Orkney Island and Yarmouth).

### 3. Clangula albeola. The Buffel-headed Duck.

Anas albeola, *Linn. S. N.* i. p. 199; *Wils. Amer. Orn.* viii. pl. 67, f. 2, 3; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 119.
Anas bucephala, *Linn. S. N.* i. p. 200.
Anas rustica, *Linn. S. N.* i. p. 201.
Clangula albeola, *Steph. Gen. Zool.* xii. p. 184; *Jenyns, Man. B. Vert. An.* p. 246; *Eyton, Cat. Brit. B.* p. 67; *G. R. Gray, Gen. of B.* iii. p. 622.
Buffel-headed Duck, *Yarr. Brit. B.* 2 edit. iii. p. 374, fig.

*Pl. enl.* 948; *Don. Brit. B.* x. pl. 226.

*a.* Norfolk. From Mr. Hubbard's collection.

## 5. HARELDA.

Harelda, *Leach, Steph. Gen. Zool.* xii. p. 174 (1824).
Pagonetta, *Kaup, Naturl. Syst. der Eur. Thier.* p. 66 (1829).
Crymonessa, *Macgill. Man. N. H. Ornith.* ii. p. 185 (1842).

### 1. Harelda glacialis. The Long-tailed Duck.

Anas glacialis, *Linn. S. N.* i. p. 203; *Temm. Man. d'Orn.* 1815, p. 558; *Naum. Vög. Deuts.* (1844) xii. p. 210, t. 319; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 117.
Anas hyemalis, *Linn. S. N.* i. p. 202.
Pagonetta glacialis, *Kaup, Naturl. Syst.* p. 66.
Anas longicauda, *Leach, Syst. Cat. Mam. & B. B. M.* p. 37.
Crymonessa glacialis, *Macgill. Man. N. H. Ornith.* ii. p. 186.
Harelda glacialis, *Steph. Gen. Zool.* xii. p. 175, pl. 58; *Jenyns, Man. B. Vert. An.* p. 247; *Pr. Bonap. Geogr. Comp. List of B.* p. 59; *Eyton, Cat. Brit. B.* p. 59; *Keys. & Bl. Wirbelth. Eur.* p. 87; *G. R. Gray, Gen. of B.* iii. p. 622.
Clangula glacialis, *Boie, Isis* (1822), p. 564; *Flem. Phil. of Zool.* ii. p. 260; *Flem. Brit. An.* p. 121; *Brehm, Vög. Deuts.* p. 937, t. 44, f. 1.
Clangula hiemalis, *Brehm, Vög. Deuts.* p. 933.
Clangula Faberi, *Brehm, Vög. Deuts.* p. 935.
Clangula megauros, *Brehm, Vög. Deuts.* p. 936.
Clangula musica, *Brehm, Vög. Deuts.* p. 937.
Clangula brachyrhynchus, *Brehm, Vög. Deuts.* p. 938.
Long-tailed Duck, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 363, fig.; *Penn. Brit. Zool.* (1812) ii. p. 268, pl. 44, upp. fig.; *Yarr. Brit. B.* 2 edit. iii. p. 355, fig.

Long-tailed Hareld, *Selby, Brit. Orn.* ii. p. 363.

*Pl. enl.* 1008, 999; *Gould, B. of Eur.* pl. 382.

*a*. Devonshire. From Col. Montagu's collection.
*b*. Orkney. From Mr. Bullock's collection.
*c*, *d*. Great Britain. Presented by H. L. Meyer, Esq.
*e*. Great Britain. Presented by Sir P. Grey Egerton, Bart., M.P.
*f*. Norfolk. From Mr. J. Baker's collection.

## 6. ENICONETTA.

Eniconetta, *G. R. Gray, List of Gen. of B.* (1840) p. 75.
Macropus, *Nutt. Man. Orn.*
Polysticta, *Eyton, Monogr. Anatidæ*, p. (1838).
Stelleria, *Pr. Bonap. Geogr. Comp. List of B.* p. 57 (1838).

### 1. ENICONETTA STELLERI. The Western Duck.

Anas Stelleri, *Pall. Spic. Zool.* vi. p. 35, t. 5; *Gmel. S. N.* i. p. 518; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 116.
Anas dispar, *Sparrm. Mus. Carls.* t. 7, 8; *Gmel. S. N.* i. p. 535; *Naum. Vög. Deuts.* (1844) xii. p. 240, t. 320.
Anas occidua, *Shaw, Nat. Misc.* pl. 34.
Fuligula dispar, *Steph. Gen. Zool.* xii. p. 206; *Jenyns, Man. B. Vert. An.* p. 243.
Polysticta Stelleri, *Eyton, Monogr. Anatidæ*, p. 150; *Eyton, Cat. Brit. B.* p. 58.
Stelleria dispar, *Pr. Bonap. Geogr. Comp. List of B.* p. 57.
Harelda Stelleri, *Keys. & Bl. Wirbelth. Eur.* p. 87.
Eniconetta Stelleri, *G. R. Gray, List of Gen. of B.* (1840), p. 95; *Gen. of B.* iii. p. 624.
Clangula Stelleri, *Boie, Isis* (1822), p. 564; *Macgill. Man. N. H. Ornith.* ii. p. 183.
Western Duck, *Penn. Arct. Zool.* ii. p. 289, pl. 23; *Eyton, R. Brit. B.* p. 79, fig.
Western Pochard, *Selby, Brit. Orn.* ii. p. 360.
Steller's Western Duck, *Yarr. Brit. B.* 2 edit. iii. p. 305, fig.

*Jard. & Selby, Illustr. of Ornith.* pl. 66; *Gould, B. of Eur.* pl. 372.

(Caistor, near Yarmouth).

## 7. SOMATERIA.

Somateria, *Leach*, *Flem. Phil. of Zool.* ii. p. 260; *Boie*, *Isis* (1822), p. 564.

### 1. SOMATERIA MOLLISSIMA. The Eider Duck.

Anas mollissima, *Linn. S. N.* i. p. 198; *Temm. Man. d'Orn.* 1815, p. 549; *Naum. Vög. Deuts.* (1844) xii. p. 252, t. 321 and 322, f. 1; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 116.
Anas Cuthberti, *Pall. Zoogr.* ii. p. 235.
Anser lanuginosus, *Leach*, *Syst. Cat. Mam. & B. B. M.* p. 37.
Somateria mollissima, *Boie*, *Isis* (1822), p. 564; *Flem. Phil. of Zool.* ii. p. 260; *Steph. Gen. Zool.* xii. p. 224, pl. 60; *Flem. Brit. An.* p. 119; *Pr. Bonap. Geogr. Comp. List of B.* p. 57; *Jenyns*, *Man. B. Vert. An.* p. 237; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 86; *Macgill. Man. N. H. Ornith.* ii. p. 177; *G. R. Gray*, *Gen. of B.* iii. p. 624.
Somateria St. Cuthberti, *Eyton*, *Cat. Brit. B.* p. 58.
Somateria danica, *Brehm*, *Vög. Deuts.* p. 890.
Somateria norwegica, *Brehm*, *Vög. Deuts.* p. 892, t. 43, f. 1.
Somateria platyuros, *Brehm*, *Vög. Deuts.* p. 892.
Somateria faeroeensis, *Brehm*, *Vög. Deuts.* p. 893.
Somateria megaurus, *Brehm*, *Vög. Deuts.* p. 894.
Somateria islandica, *Brehm*, *Vog. Deuts.* p. 895.
Somateria borealis, *Brehm*, *Vog. Deuts.* p. 896.
Somateria Leisleri, *Brehm*, *Vög. Deuts.* p. 896.
Somateria planifrons, *Brehm*, *Vög. Deuts.* p. 897.
Eider or Edder Duck, *Mont. Orn. Dict.*
Eider Duck, *Bew. Brit. B.* (1804) ii. p. 314, fig.; *Penn. Brit. Zool.* (1812) ii. p. 243, pl. 40; *Yarr. Brit. B.* 2 edit. iii. p. 297, fig.
Common Eider, *Selby*, *Brit. Orn.* ii. p. 338.

*Pl. enl.* 208, 209; *Gould*, *B. of Eur.* pl. 374.

*a.* Great Britain.
*b.* Orkney Islands.
*c.* Damsa Holm, Orkney. Male. From Mr. J. Baker's collection.
*d.* Damsa Holm, Orkney. Female. From Mr. J. Baker's collection.
*e.* Damsa Holm, Orkney. Very young. From Mr. J. Baker's collection.
*f.* Trachea. England.

### 2. Somateria spectabilis. The King Duck.

Anas spectabilis, *Linn. S. N.* i. p. 195; *Temm. Man. d'Orn.* (1820) p. 851; *Naum. Vög. Deuts.* (1844), xii. p. 585, t. 322, f. 2, & t. 323; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 116.
Anas mollissima, pt., *Temm. Man. d'Orn.* 1815, p. 549.
Somateria spectabilis (*Leach*), *Boie, Isis* (1822), p. 564; *Flem. Phil. of Zool.* ii. p. 260; *Steph. Gen. Zool.* xii. p. 229; *Flem. Brit. An.* p. 120; *Jenyns, Man. B. Vert. An.* p. 238; *Pr. Bonap. Geogr. Comp. List of B.* p. 57; *Eyton, Cat. Brit. B.* p. 58; *Keys. & Bl. Wirbelth. Eur.* p. 86; *Macgill. Man. N. H. Ornith.* ii. p. 178; *G. R Gray, Gen. of B.* iii. p.
King Duck, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 246; *Yarr. Brit. B.* 2 edit. iii. p. 308, fig.
King Eider, *Selby, Brit. Orn.* ii. p. 343.

*Sparrm. Mus. Carls.* t. 39; *Gould, B. of Eur.* pl. 375.

(Orkneys and Suffolk).

## 8. OIDEMIA.

Oidemia, *Flem. Phil. of Zool.* ii. p. 260 (1822).
Melanitta, *Boie, Isis* (1822), p. 564.
Maceranus, *Less. Man. d'Ornith.* ii. p. 414 (1828).
Macroramphus, *Less. Man. d'Ornith.* ii. p. 414 (1828).
Pelionetta, *Kaup, Naturl. Syst. der Eur. Thier.* p. 107 (1829).

### 1. Oidemia fusca. The Velvet Scoter.

Anas fusca, *Linn. S. N.* i. p. 196; *Temm. Man. d'Orn.* 1815, p. 552; *Naum. Vög. Deuts.* (1844) xii. p. 123, t. 313; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 117.
Anas carbo, *Pall. Zoogr.* ii. p. 244.
Melanitta fusca, *Boie, Isis* (1822), p. 564; *Brehm, Vög. Deuts.* p. 905.
Oidemia fusca, *Flem. Phil. of Zool.* ii. p. 260; *Steph. Gen. Zool.* xii. p. 216; *Flem. Brit. An.* p. 119; *Jenyns, Man. B. Vert. An.* p. 239; *Pr. Bonap. Geogr. Comp. List of B.* p. 57; *Eyton, Cat. Brit. B.* p. 58; *Keys. & Bl. Wirbelth. Eur.* p. 86; *Macgill. Man. N. H. Ornith.* ii. p. 180; *G. R. Gray, Gen. of B.* iii. p. 625.
Anas fuliginosa, *Bechst. Naturg. Deuts.* iv. p. 962, t. 36.
Melanitta Hornschuchii, *Brehm, Vög. Deuts.* p. 904.

Melanitta megapus, *Brehm*, *Vög.* *Deuts.* p. 906.
Melanitta platyrhynchos, *Brehm*, *Vög. Deuts.* p. 907.
Velvet Duck, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 322, fig.; *Penn. Brit. Zool.* (1812) ii. p. 247, pl. 41.
Velvet Scoter, *Selby*, *Brit. Orn.* ii. p. 333; *Yarr. Brit. B.* 2 edit. iii. p. 312, fig.

*Pl. enl.* 956; *Gould*, *B. of Eur.* pl. 377.

*a*, *b*. London Market.
*c*. Leadenhall Market. Male. From Mr. J. Baker's collection.
*d*. Leadenhall Market. Young female. From Mr. J. Baker's collection.
*e*. Trachea. England.

### 2. Oidemia nigra. The Common Scoter.

Anas nigra, *Linn. S. N.* i. p. 196; *Temm. Man. d'Orn.* 1815, p. 554; *Leach*, *Syst. Cat. Mam. & B. B. M.* p. 39; *Naum. Vög. Deuts.* (1844) xii. p. 108, t. 312; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 118.
Anas atra, *Pall. Zoogr.* ii. p. 247.
Anas cinerascens, *Bechst. Naturg. Deuts.* iv. p. 1025; *Temm. Man. d'Orn.* 1815, p. 556.
Anas cinerea, *S. G. Gmel. Reis.* ii. p. 184.
Oidemia nigra, *Flem. Phil. of Zool.* ii. p. 260; *Steph. Gen. Zool.* xii. p. 213, pl. 59; *Flem. Brit. An.* p. 119; *Jenyns*, *Man. B. Vert. An.* p. 239; *Pr. Bonap. Geogr. Comp. List of B.* p. 38; *Eyton*, *Cat. Brit. B.* p. 58; *Keys. & Bl. Wirbelth. Eur.* p. 86; *Macgill. Man. N. H. Ornith.* ii. p. 181; *G. R. Gray*, *Gen. of B.* iii. p. 625.
Melanitta nigra, *Boie*, *Isis* (1822), p. 564; *Brehm*, *Vög. Deuts.* p. 903.
Melanitta nigripes, *Brehm*, *Vög. Deuts.* p. 901.
Melanitta megauros, *Brehm*, *Vög. Deuts.* p. 902.
Melanitta gibbera, *Brehm*, *Vög. Deuts.* p. 902.
Oidemia leucocephala, *Flem. Brit. An.* p. 119; *Jenyns*, *Man. B. Vert. An.* p. 240.
Scoter, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 324, fig.; *Penn. Brit. Zool.* (1812) ii. p. 248.
Black Scoter, *Selby*, *Brit. Orn.* ii. p. 329.
Common Scoter, *Yarr. Brit. B.* 2 edit. iii. p. 317, fig.
White-necked Duck, *Penn. Brit. Zool.*

*Pl. enl.* 978; *Gould*, *B. of Eur.* pl. 378.

*a*, *b*. Somersetshire. From Col. Montagu's collection.
*c*. Somersetshire. Presented by the Hon. W. E. Fitzmaurice.
*d*. Wales. Presented by the Earl of Cawdor.
*e*. London Market. From Mr. J. Baker's collection.
*f*. Trachea. England.
*g*. Sternum. England. Presented by John Ray, Esq.

### 3. Oidemia perspicillata. The Surf Scoter.

Anas perspicillata, *Linn. S. N.* i. p. 201; *Temm. Man. d'Orn.* (1820) ii. p. 853; *Naum. Vög. Deuts.* (1844) xii. p. 140, t. 314; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 117.
Oidemia perspicillata, *Steph. Gen. Zool.* xii. p. 219; *Flem. Brit. An.* p. 119; *Jenyns, Man. B. Vert. An.* p. 240; *Eyton, Cat. Brit. B.* p. 59; *Pr. Bonap. Geogr. Comp. List of B.* p. 376; *Keys. & Bl. Wirbelth. Eur.* p. 86; *Macgill. Man. N. H. Ornith.* ii. p. 181; *G. R. Gray, Gen. of B.* iii. p. 625.
Melanitta perspicillata, *Boie, Isis* (1822), p. 564.
Pelionetta perspicillata, *Kaup, Naturl. Syst.* p. 107.
Surf Duck, *Eyton, Hist. R. Brit. B.* p. 81, fig.
Surf Scoter, *Yarr. Brit. B.* 2 edit. iii. p. 321, fig.

*Pl. enl.* 995; *Gould, B. of Eur.* pl. 377.

(Orkneys).

## vi. *Merginæ*.

### 1. MERGUS.

Mergus, *Linn. S. N.* (1735).
Merganser, *Briss. Ornith.* vi. p. 230 (1760).

### 1. Mergus castor. The Goosander.

Mergus merganser, *Linn. S. N.* i. p. 209; *Temm. Man. d'Orn.* 1815, p. 575; *Boie, Isis* (1822), p. 564; *Flem. Brit. An.* p. 128; *Brehm, Vög. Deuts.* p. 943; *Jenyns, Man. B. Vert. An.* p. 249; *Eyton, Cat. Brit. B.* p. 56; *Naum. Vög. Deuts.* (1844) xii. p. 356, t. 326; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 121.
Mergus castor, *Linn. S. N.* p. 209; *Brehm, Vög. Deuts.* p. 944; *Keys. & Bl. Wirbelth. Eur.* p. 88; *G. R. Gray, Gen. of B.* iii. p. 629.

Merganser Raii, *Leach, Syst. Cat. Mam. & B. B. M.* p. 36.
Merganser gulo, *Steph. Gen. Zool.* xii. p. 161, pl. 53; *Leach, Syst. Cat. Mam. & B. B. M.* p. 36.
Merganser castor, *Pr. Bonap. Geogr. Comp. List of B.* p. 59; *Macgill. Man. N. H. Ornith.* ii. p. 194.
Goosander, *Mont. Orn. Dict; Bew. Brit. B.* (1804) ii. p. 254, fig.; *Penn. Brit. Zool.* (1812) ii. p. 211, pl. 37; *Yarr. Brit. B.* 2 edit. iii. p. 395, fig.
Dun Diver, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 257, fig.; *Penn. Brit. Zool.* (1812) ii. p. 213.

*Gould, B. of Eur.* pl. 384.

*a.* Great Britain. From Col. Montagu's collection.
*b.* Gloucestershire. From Col. Montagu's collection.
*c.* Rendlesham Park, Suffolk. Presented by the Rev. H. Kirby.
*d.* Norfolk. Presented by Joseph Sabine, Esq.
*e.* Norfolk. Male. From Mr. J. Baker's collection.
*f.* (Norfolk). Leadenhall Market. Young male. From Mr. J. Baker's collection.
*g.* (Norfolk). Leadenhall Market. Female. From Mr. J. Baker's collection.
*h—j.* Three tracheæ. England.

2. MERGUS SERRATOR. The Red-breasted Merganser.

Mergus serrator, *Linn. S. N.* i. p. 208; *Temm. Man. d'Orn.* 1815, p. 579; *Boie, Isis* (1822), p. 564; *Flem. Brit. An.* p. 129; *Brehm, Vög. Deuts.* p. 945; *Jenyns, Man. B. Vert. An.* p. 249; *Eyton, Cat. Brit. B.* p. 56; *Keys. & Bl. Wirbelth. Eur.* p. 88; *Naum. Vög. Deuts.* (1844) xii. p. 333, t. 325; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 121; *G. R. Gray, Gen. of B.* iii. p. 629.
Mergus serratus, *Gmel. S. N.* i. p. 546.
Mergus niger, *Gmel. S. N.* i. p. 546.
Mergus leucomelas, *Brehm, Vög. Deuts.* p. 947.
Merganser cristatus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 36.
Merganser serrata, *Steph. Gen. Zool.* xii. p. 165.
Merganser serrator, *Pr. Bonap. Geogr. Comp. List of B.* p. 59; *Macgill. Man, N. H. Ornith.* ii. p. 195.
Red-breasted Merganser, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 261, fig.; *Penn. Brit. Zool.* (1812) ii. p. 214, pl. 38; *Selby, Brit. Orn.* ii. p. ; *Yarr. Brit. B.* 2 edit. ii. p. 389, fig.

*Pl. enl.* 207; *Gould, B. of Eur.* pl. 385.

*a.* Gloucestershire. From Col. Montagu's collection.
*b, c.* Great Britain. From Mr. Pellerin's collection.

*d*, *e*. Scotland. Male and female. From Mr. J. Baker's collection.
*f*. ——? Leadenhall Market. From Mr. J. Baker's collection.
*g*, *h*. Two tracheæ. England.
*i*. Sternum. England.
*j*. Sternum. England. Presented by John Ray, Esq.
*k*. Skeleton. England.

### 3. Mergus cucullatus. The Hooded Merganser.

Mergus cucullatus, *Linn. S. N.* i. p. 207; *Jenyns, Man. B. Vert. An.* p. 249; *Eyton, Cat. Brit. B.* p. 57; *Keys. & Bl. Wirbelth. Eur.* p. 88; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 121; *G. R. Gray, Gen. of B.* iii. p. 629.
Merganser cucullatus, *Steph. Gen. Zool.* xii. p. 168; *Pr. Bonap. Geogr. Comp. List of B.* p. 59; *Macgill. Man. N. H. Ornith.* ii. p. 196.
Hooded Merganser, *Selby, Trans. Nat. Hist. Northumb.* i. p. 292: *Eyton, Hist. R. Brit. B.* p. 75, fig.; *Yarr. Brit. B.* 2 edit. iii. p. 383, fig.

*Gould, B. of Eur.* pl. 386.

(Yarmouth and Norfolk).

*a*. Sternum. England. Presented by John Ray, Esq.

## 2. MERGELLUS.

Mergellus, *Selby, Cat. Gen. & Subgen. of Birds*, p. 47 (1840).
Mergus, *Steph. Gen. Zool.* xii. p. 156 (1824).

### 1. Mergellus albellus. The Smew.

Mergus albellus, *Linn. S. N.* i. p. 209; *Temm. Man. d'Orn.* p. 581; *Leach, Syst. Cat. Mam. & B. B. M.* p. 36; *Boie, Isis* (1822), p. 564; *Steph. Gen. Zool.* xii. p. 157, pl. 52; *Flem. Brit. An.* p. 129; *Brehm, Vög. Deuts.* p. 941; *Pr. Bonap. Geogr. Comp. List of B.* p. 59; *Jenyns, Man. B. Vert. An.* p. 250; *Eyton, Cat. Brit. B.* p. 57; *Keys. & Bl. Wirbelth. Eur.* p. 88; *Naum. Vög. Deuts.* (1844) xii. p. 314, t. 324; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 122; *Macgill. Man. N. H. Ornith.* ii. p. 197.
Mergus minutus, *Linn. S. N.* i. p. 209; *Brehm, Vög. Deuts.* p. 942.
Mergus asiaticus, *S. G. Gmel. Reis.* ii. p. 188, t. 20.

Mergus stellatus, *Brünn. Orn. Bor.* No. 98.
Mergus glacialis, *Brünn. Orn. Bor.* No. 99.
Mergellus albellus, *Selby, Cat. Gen. & Subgen. of Birds*, p. *G. R. Gray, Gen. of B.* iii. p. 629.
Smew, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 264, fig. *Penn. Brit. Zool.* (1812) ii. p. 216; *Selby, Brit. Orn.* ii. p. 385 *Yarr. Brit. B.* 2 edit. iii. p. 378, fig.
Minute Merganser, *Mont. Orn. Dict.*
Red-headed Smew, *Bew. Brit. B.* (1804) ii. p. 266.
Lough-Diver, *Bew. Brit. B.* (1804) ii. p. 268.

*Pl. enl.* 449, 450; *Gould, B. of Eur.* pl. 387.

*a*, *b*. Gloucestershire. From Col Montagu's collection.
*c*—*e*. Great Britain. Presented by H. L. Meyer, Esq.
*f*. Devonshire.
*g*. Great Britain. Presented by J. Sabine, Esq.
*h*. Great Britain. Male. From Mr. J. Baker's collection.
*i*. Great Britain. Female. From Mr. J. Baker's collection.
*j*—*m*. Four tracheæ. England.
*n*. Sternum. England. Presented by John Ray, Esq.

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## Fam. II. COLYMBIDÆ.

### i. *Colymbinæ*.

### 1. COLYMBUS.

Colymbus, *Linn. S. N.* (1735).
Cepphus, *Mœhr. Avium Gen.* p. 69 (1752).
Urinator, *Cuv.* (1799—1800).
Eudytes, *Ill. Prodr. Mam. & Av.* p. 282 (1811).

#### 1. Colymbus glacialis. The Great Northern Diver.

Colymbus glacialis, *Linn. S. N.* i. p. 221; *Temm. Man. d'Orn.* 1815, p. 597; *Leach, Syst. Cat. Mam. & B. B. M.* p. 35; *Boie, Isis* (1822), p. 561; *Steph. Gen. Zool.* xii. p. 233, pl. 61; *Flem. Brit. An.* p. 132; *Brehm, Vög. Deuts.* p. 970; *Jenyns, Man. B. Vert. An.* p. 255; *Eyton, Cat. Brit. B.* p. 48; *Pr. Bonap. Geogr. Comp. List of B.* p. 65; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 106; *G. R. Gray, Gen. of B.* iii. p. 631.

Colymbus torquatus, *Brünn. Orn. Bor.* No. 134; *Keys. & Bl. Wirbelth. Eur.* p. 91.
Colymbus immer, *Linn. S. N.* i. p. 222; *Leach, Syst. Cat. Mam. & B. B. M.* p. 36.
Colymbus maximus, *Brehm, Vög. Deuts.* p. 971.
Colymbus hiemalis, *Brehm, Vög. Deuts.* p. 972.
Cepphus torquatus, *Pall. Zoogr.* ii. p. 340.
Eudyptes glacialis, *Illig. Prod.* p. 282; *Naum. Vög. Deuts.* (1844) xii. p. 397, t. 327.
Colymbus atrogularis, *Meyer, Taschenb. Deuts.* ii. p. 449.
Northern Diver, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 165; *Selby, Brit. Orn.* ii. p. 406.
Great Northern Diver, *Bew. Brit. B.* (1804) ii. p. 183, fig.; *Yarr. Brit. B.* 2 edit. iii. p. 425, fig.
Imber Diver, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 167.
Imber, *Bew. Brit. B.* (1804) ii. p. 185, fig.
*Pl. enl*, 952; *Gould, B. of Eur.* pl. 393.

*a*. Cornwall. Adult. From Col. Montagu's collection.
*b*. Great Britain. Adult.
*c*. Devonshire. Young. From Col. Montagu's collection.
*d*. ——— ?
*e*. Sternum. England.
*f*. Sternum. England. Presented by John Ray, Esq.
*g*. Sternum. England. Presented by Mr. J. Baker.
*h*, *i*. Two tracheæ. England.

### 2. Colymbus arcticus. The Black-throated Diver.

Colymbus arcticus, *Linn. S. N.* i. p. 221; *Temm. Man. d'Orn.* 1815, p. 599; *Leach, Syst. Cat. Mam. & B. B. M.* p. 36; *Boie, Isis* (1822), p. 561; *Steph. Gen. Zool.* xii. p. 236; *Flem. Brit. An.* p. 133; *Brehm, Vög. Deuts.* p. 973; *Jenyns, Man. B. Vert. An.* p. 256; *Eyton, Cat. Brit. B.* p. 48; *Pr. Bonap. Geogr. Comp. List of B.* p. 65; *Keys. & Bl. Wirbelth. Eur.* p. 91; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 106; *G. R. Gray, Gen. of B.* iii. p. 631.
Eudyptes arcticus, *Illig. Prod.* p. 282; *Naum. Vög. Deuts.* (1844) xii. p. 418, t. 328.
Colymbus macrorhynchos, *Brehm, Vög. Deuts.* p. 974.
Colymbus balthicus, *Horsch. & Schill.; Brehm, Vög. Deuts.* p. 975.
Cepphus arcticus, *Pall. Zoogr.* ii. p. 91.

Black-throated Diver, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 195; *Penn. Brit. Zool.* (1812) ii. p. 170; *Selby, Brit. Orn.* ii. p. 411; *Yarr. Brit. B.* 2 edit. iii. p. 434, fig.
Lesser Imber, *Bew. Brit. B.* (1804) ii. p. 187, fig.?

*Pl. enl.* 914; *Edwards, Birds*, pl. 146; *Gould, B. of Eur.* pl. 394.

*a.* Northumberland.
*b.* Great Britain.
*c.* Great Britain. From Mr. Turner's collection.
*d.* Fulham. Presented by W. J. Broderip. Esq.

3. COLYMBUS SEPTENTRIONALIS. The Red-throated Diver.

Colymbus septentrionalis, *Linn. S. N.* i. p. 220; *Temm. Man. d'Orn.* 1815, p. 602; *Leach, Syst. Cat. Mam. & B. B. M.* p. 36; *Boie, Isis* (1822), p. 561; *Steph. Gen. Zool.* xii. p. 238; *Flem. Brit. An.* p. 133; *Brehm, Vög. Deuts.* p. 978; *Jenyns, Man. B. Vert. An.* p. 257; *Eyton, Cat. Brit. B.* p. 48; *Pr. Bonap. Geogr. Comp. List of B.* p. 65; *Keys. & Bl. Wirbelth. Eur.* p. 91; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 106; *G. R. Gray, Gen. of B.* iii. p. 631.
Eudyptes septentrionalis, *Illig. Prod.* p. 282; *Naum. Vög. Deuts.* (1844) xii. p. 435, t. 329.
Colymbus stellatus, *Gmel. S. N.* i. p. 587; *Leach, Syst. Cat. Mam. & B. B. M.* p. 35.
Colymbus borealis, *Lath. Ind. Orn.* ii. p. 801; *Brehm, Vög. Deuts.* p. 979.
Colymbus striatus, *Gmel. S. N.* i. p. 586.
Colymbus lumme, *Brünn. Orn. Bor.* p. 39, No. 132; *Brehm, Vög. Deuts.* p. 978.
Cepphus septentrionalis, *Pall. Zoogr.* ii. p. 342.
Colymbus rufogularis, *Meyer, Taschenb. Deuts.* ii. p. 453.
Red-throated Diver, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 193, fig.; *Penn. Brit. Zool.* (1812) ii. p. 169, pl. ; *Selby, Brit. Orn.* ii. p. 414; *Yarr. Brit. B.* 2 edit. iii. p. 441, fig.
Speckled Diver, *Mont. Orn. Dict.*; *Penn. Brit. Zool.* (1812) ii. p. 168.
First Speckled Diver, *Bew. Brit. B.* (1804) ii. p. 189, fig.
Second Speckled Diver, *Bew. Brit. B.* (1804) ii. p. 191, fig.

*Pl. enl.* 308, 992; *Gould, B. of Eur.* pl. 395.

*a.* Devonshire. From Col. Montagu's collection.
*b.* Sussex. From Col. Montagu's collection.
*c.* Sternum. England. Presented by John Ray, Esq.

## ii. *Podicipinæ*.

### 1. PODICEPS.

Podiceps, *Lath. Ind. Orn.* ii. p. 780.
Colymbus, *Briss. Ornith.* vi. p. 33.
Lophaithyia, *Kaup, Naturl. Syst. der Eur. Thier.* p. 72 (1829).
Dytes, *Kaup, Naturl. Syst. der Eur. Thier.* p. 41 (1829).
Proctopus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 49 (1829).
Pedetaithya, *Kaup, Naturl. Syst. der Eur. Thier.* p. 44 (1829).
Sylbeocyclus, *Pr. Bonap.* (1832).
Podilymbus, *Less. Tr. d'Orn.* p. 595 (1831).
Dasyptilus, *Swains. Classif. of B.* ii. p. 369 (1837).

#### a. Pedetaithya.

##### 1. Podiceps grisegena. The Red-necked Grebe.

Colymbus rubricollis, *Gmel. S. N.* i. p. 592; *Naum. Vög. Deuts.* (1838) ix. p. 720, t. 243.
Colymbus grisegena, *Bodd. Table des Pl. Enl. de d'Aubent.* p. 55.
Colymbus subcristatus, *Gmel. S. N.* i. p. 590.
Colymbus parotis, *Sparrm. Mus. Carls.* t. 9.
Podiceps rubricollis, *Lath. Ind. Orn.* ii. p. 783; *Temm. Man. d'Orn.* 1815, p. 465; *Leach, Syst. Cat. Mam. & B. B. M.* p. 35; *Boie, Isis* (1822), p. 561; *Steph. Gen. Zool.* xiii. p. 8; *Flem. Brit. An.* p. 131; *Brehm, Vög. Deuts.* p. 956; *Jenyns, Man. B. Vert. An.* p. 252; *Pr. Bonap. Geogr. Comp. List of B.* p. 65; *Eyton, Cat. Brit. B.* p. 47; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 105; *Macgill. Man. N. H. Ornith.* ii. p. 203.
Podiceps subcristatus, *Bechst. Naturg. Deuts.* p. ; *Brehm, Vög. Deuts.* p. 957; *Keys. & Bl. Wirbelth. Eur.* p. 90.
Podiceps grisegena, *G. R. Gray, Gen. of B.* iii. p. 633.
Podiceps canogularis, *Brehm, Vög. Deuts.* p. 958.
Colymbus cucullatus, *Pall. Zoogr.* ii. p. 355.
Colymbus nævius, *Pall. Zoogr.* ii. p. 356.
Pedetaithya subcristatus, *Kaup, Naturl. Syst.* p. 44.
Red-necked Grebe, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 152, fig.; *Penn. Brit. Zool.* (1812) ii. p. 139; *Selby, Brit. Orn.* ii. p. 392; *Yarr. Brit. B.* 2 edit. iii. p. 407, fig.

*Pl. enl.* 931; *Gould, B. of Eur.* pl. 389.

[a]. Great Britain. From Col. Montagu's collection.
[b], c. Yarmouth. From Mr. Gould's collection.
[d]. Sternum. England. Presented by John Ray, Esq.

## b. Dytes.

### 2. Podiceps cornutus. The Sclavonian Grebe.

Colymbus cornutus, *Gmel. S. N.* i. p. 591; *Naum. Vög. Deuts.* (1838) ix. p. 739, t. 244.
Podiceps cornutus, *Lath. Ind. Orn.* ii. p. 783; *Temm. Man. d'Orn.* 1815, p. 466; *Leach, Syst. Cat. Mam. & B. B. M.* p. 35; *Boie, Isis* (1822), p. 561; *Steph. Gen. Zool.* xiii. p. 9; *Flem. Brit. An.* p. 131; *Brehm, Vög. Deuts.* p. 959; *Jenyns, Man. B. Vert. An.* p. 252; *Eyton, Cat. Brit. B.* p. 47; *Pr. Bonap. Geogr. Comp. List of B.* p. 65; *Keys. & Bl. Wirbelth. Eur.* p. 90; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 105; *Macgill. Man. N. H. Ornith.* ii. p. 203; *G. R. Gray, Gen. of B.* iii. p. 633.
Podiceps obscurus, *Lath. Ind. Orn.* ii. p. 782; *Leach, Syst. Cat. Mam. & B. B. M.* p. 35.
Podiceps caspicus, *Lath. Ind. Orn.* ii. p. 784.
Colymbus obscurus, *Gmel. S. N.* i. p. 592.
Colymbus caspicus, *S. G. Gmel. Reis.* iv. p. 137.
Colymbus nigricans, *Scop. Ann.* i. No. 101?
Podiceps bicornis, *Brehm, Vög. Deuts.* p. 960, t. 44, f. 4.
Dytes cornutus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 41.
Sclavonian Grebe, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 141; *Yarr. Brit. B.* 2 edit. iii. p. 411, fig.
Horned Grebe, *Selby, Brit. Orn.* ii. p. 397.
Dusky Grebe, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 150, fig.; *Penn. Brit. Zool.* (1812) ii. p. 136.

*Pl. enl.* 404, 942; *Gould, B. of Eur.* pl. 390.

*a.* Great Britain. Adult. From Col. Montagu's collection.
*b—d.* Great Britain.
*e.* Devonshire.
*f.* Sternum. England. Presented by T. Ingall, Esq.
*g, h.* Two tracheæ. England.
*i.* Sternum. England. Presented by John Ray, Esq.

## c. Podiceps.

### 3. Podiceps cristatus. The Great Crested Grebe.

Colymbus cristatus, *Linn. S. N.* i. p. 222; *Naum. Vög. Deuts.* (1838) ix. p. 686, t. 242.

Podiceps cristatus, *Lath. Ind. Orn.* ii. p. 394; *Temm. Man. d'Orn.* 1815, p. 462; *Leach, Syst. Cat. Mam. & B. B. M.* p. 35; *Boie, Isis* (1822), p. 561; *Steph. Gen. Zool.* xiii. p. 3; *Flem. Brit. An.* p. 131; *Brehm, Vög. Deuts.* p. 952; *Jenyns, Man. B. Vert. An.* p. 251; *Eyton, Cat. Brit. B.* p. 47; *Pr. Bonap. Geogr. Comp. List of B.* p. 65; *Keys. & Bl. Wirbelth. Eur.* p. 90; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 104; *Macgill. Man. N. H. Ornith.* ii. p. 202; *G. R. Gray, Gen. of B.* iii. p. 633.

Colymbus urinator, *Linn. S. N.* i. p. 223.

Podiceps mitratus, *Brehm, Vög. Deuts.* p. 953.

Podiceps patagiatus, *Brehm, Vög. Deuts.* p. 954.

Colymbus cornutus, *Pall. Zoogr.* ii. p. 353.

Lophaithyia cristata, *Kaup, Naturl. Syst.* p. 72.

Crested Grebe, *Mont. Orn. Dict.; Selby, Brit. Orn.* ii. p. 394.

Great Crested Grebe, *Bew. Brit. B.* (1804) ii. p. 145, fig.; *Penn. Brit. Zool.* (1812) ii. p. 130; *Yarr. Brit. B.* 2 edit. iii. p. 400, fig.

Tippet Grebe, *Bew. Brit. B.* (1804) p. 147, fig.; *Penn. Brit. Zool.* (1812) ii. p. 134.

*Pl. enl.* 400, 941, 944; *Gould, B. of Eur.* pl. 388.

*a*. Devonshire. Male. From Col. Montagu's collection.
*b*. Devonshire. Female. From Col. Montagu's collection.
*c*. Devonshire. Young.
*d*. Great Britain. Presented by W. Yarrell, Esq.
*e*, *f*. Great Britain.
*g*. Trachea. England.
*h*. Two sterna. England. Presented by John Ray, Esq.

## d. Proctopus.

### 4. Podiceps auritus. The Eared Grebe.

Colymbus auritus, *Linn. S. N.* i. p. 222; *Naum. Vög. Deuts.* (1838) ix. p. 768, t. 246.

Podiceps auritus, *Lath. Ind. Orn.* ii. p. 781; *Temm. Man. d'Orn.* 1815, p. 469; *Leach, Syst. Cat. Mam. & B. B. M.* p. 35; *Boie, Isis* (1822), p. 561; *Steph. Gen. Zool.* xiii. p. 12; *Flem. Brit. An.* p. 132; *Brehm, Vög. Deuts.* p. 963; *Jenyns, Man. B. Vert. An.* p. 253; *Eyton, Cat. Brit. B.* p. 48; *Pr. Bonap. Geogr. Comp. List of B.* p. 64; *Keys. & Bl. Wirbelth. Eur.* p. 90; *Schleg. Rev. Crit. des Ois. dEur* p. 105; *Macgill. Man. N. H. Ornith.* ii. p. 204; *G. R. Gray, Gen. of B.* iii. p. 633.

Podiceps nigricollis, *Brehm, Vög. Deuts.* p. 963.
Proctopus auritus, *Kaup, Naturl. Syst.* p. 49.
Eared Grebe, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 149; *Penn. Brit. Zool.* (1812) ii. p. 135; *Selby, Brit. Orn.* ii. p. 399; *Yarr. Brit. B.* 2 edit. iii. p. 417, fig.

*Edwards, Birds*, pl. 96, f. 2; *Gould, B. of Eur.* pl. 391.

*a*. Cornwall. From Col. Montagu's collection.
*b*. Yarmouth. From Mr. Gould's collection.
*c*. Sternum. England. Presented by John Ray, Esq.

## e. Sylbeocyclus.

### 5. Podiceps minor. The Little Grebe.

Colymbus cristatus, *Gmel. S. N.* i. p. 589, var.
Colymbus minor, *Gmel. S. N.* i. p. 591; *Naum. Vög. Deuts.* (1838) ix. p. 785, t. 247.
Podiceps minor, *Lath. Ind. Orn.* ii. p. 784; *Temm. Man. d'Orn.* 1815, p. 471; *Leach, Syst. Cat. Mam. & B. B. M.* p. 35; *Boie, Isis* (1822), p. 561; *Steph. Gen. Zool.* xiii. p. 13, pl. 2; *Flem. Brit. An.* p. 132; *Brehm, Vög. Deuts.* p. 966; *Jenyns, Man. B. Vert. An.* p. 254; *Eyton, Cat. Brit. B.* p. 48; *Keys. & Bl. Wirbelth. Eur.* p. 90; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 105; *G. R. Gray, Gen. of B.* iii. p. 633.
Colymbus hebridicus, *Gmel. S. N.* i. p. 594; *Sow. Brit. Misc.* pl. 70.
Podiceps hebridicus, *Lath. Ind. Orn.* ii. p. 785; *Leach, Syst. Cat. Mam. & B. B. M.* p. 35; *Brehm, Vög. Deuts.* p. 964.
Colymbus pyrenaicus, *La Peyr. Neue Schwed. abh.* iii. p. 105.
Podiceps pygmæus, *Brehm, Vög. Deuts.* p. 966.
Sylbeocyclus minor, *Pr. Bonap. Geogr. Comp. List of B.* p. 64.
Sylbeocyclus europæus, *Macgill. Man. N. H. Ornith.* ii. p. 205.
Little Grebe, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 154, fig.; *Penn. Brit. Zool.* (1812) ii. p. 137; *Selby, Brit. Orn.* ii. p. 401.
Black-chin Grebe, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) p. 156; *Penn. Brit. Zool.* (1812) ii. p. 138.
Little Grebe or Dabchick, *Yarr. Brit. B.* 2 edit. iii. p. 420, fig.

*Pl. enl.* 905; *Gould, B. of Eur.* pl. 392.

*a*. Chelsea. From Col. Montagu's collection.
*b*. Devonshire. From Col. Montagu's collection.
*c*. Great Britain. Presented by J. Gould, Esq.

*d*. Great Britain. Young.
*e*, *f*. Cambridgeshire. Young. Presented by Mr. J. Baker.
*g*, *h*. Great Britain. Young. Presented by J. Gould, Esq.
*i*. Sternum. England. Presented by John Ray, Esq.

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## Fam. III. ALCIDÆ.

### i. *Alcinæ*.

### 1. ALCA.

Alca, *Linn. S. N.* (1744).
Pinguinus, *Bonn. Encyc. Meth.* p. 28 (1790).
Chenalopex, *Mœhr. Av. Gen.* p. 68 (1752).

#### 1. Alca impennis. The Great Auk.

Alca impennis, *Linn. S. N.* i. p. 210; *Temm. Man. d'Orn.* (1820) ii. p. 939; *Boie, Isis* (1822) p. 562; *Steph. Gen. Zool.* xiii. p. 51, pl. 6; *Flem. Brit. An.* p. 129; *Jenyns, Man. B. Vert. An.* p. 261; *Eyton, Cat. Brit. B.* p. 50; *Pr. Bonap. Geogr. Comp. List of B.* p. 66; *Keys. & Bl. Wirbelth. Eur.* p. 91; *Naum. Vög. Deuts.* (1844) xii. p. 630, t. 337; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 107; *Macgill. Man. N. H. Ornith.* ii. p. 217; *G. R. Gray, Gen. of B.* iii. p. 637.
Great Auk, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 162, fig.; *Penn. Brit. Zool.* (1812) ii. p. 146, pl. 26; *Selby, Brit. Orn.* ii. p. 433; *Yarr. Brit. B.* 2 edit. iii. p. 476, fig.
*Pl. enl.* 367; *Gould, B. of Eur.* pl. 400.
*a*. Papa Westra, Orkney. From Mr. Bullock's collection.

#### 1. Alca torda. The Razor-bill.

Alca torda, *Linn. S. N.* i. p. 210; *Brünn. Orn. Bor.* p. 25; *Temm. Man. d'Orn.* 1815, p. 616; *Flem. Brit. An.* p. 130; *Brehm, Vög. Deuts.* p. 1003; *Jenyns, Man. B. Vert. An.* p. 260; *Eyton, Cat. Brit. B.* p. 49; *Keys. & Bl. Wirbelth. Eur.* p. 91; *Naum. Vög. Deuts.* (1844) xii. p. 606, t. 336; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 108; *Macgill. Man. N. H. Ornith.* ii. p. 216; *G. R. Gray, Gen. of B.* iii. p. 637.

Alca pica, *Linn. S. N.* i. p. 210.
Alca balthica, *Brünn. Orn. Bor.* p. 101.
Alca unisulcata, *Brünn. Orn. Bor.* p. 102.
Alca glacialis, *Brehm, Vög. Deuts.* p. 1004.
Alca islandica, *Brehm, Vög. Deuts.* p. 1005, t. 46, f. 2.
Utamania torda, *Leach, Syst. Cat. Mam. & B. B. M.* p. 42; *Steph. Gen. Zool.* xiii. p. 27; *Pr. Bonap. Geogr. Comp. List of B.* p. 66.
Utamania pica, *Leach, Syst. Cat. Mam. & B. B. M.* p. 42; *Steph. Gen. Zool.* xiii. p. 30.
Razor-bill, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 164, fig.; *Yarr. Brit. B.* 2 edit. iii. p. 473, fig.
Razor-bill Auk, *Penn. Brit. Zool.* (1812) ii. p. 148; *Selby, Brit. Orn.* ii. p. 435.
Black-billed Auk, *Bew. Brit. B.* (1804) ii. p. 167.
*Pl. enl.* 1003, 1004; *Gould, B. of Eur.* pl. 401.

*a.* Pembrokeshire. From Col. Montagu's collection.
*b.* Scotland. Young. From Col. Montagu's collection.
*c—e.* North of Scotland. Young. From Mr. Bullock's collection.
*f.* Orkney Islands.
*g—j.* Craigs of Hoy, Orkney. From Mr. J. Baker's collection.
*k.* Sternum. England.
*l.* Sternum. England. Presented by John Ray, Esq.

## 2. FRATERCULA.

Fratercula, *Briss. Ornith.* vi. p. 81 (1760).
Larva, *Vieill. Analyse, &c.*, p. 67 (1811).
Mormon, *Illig. Prodr. Mam. & Av.* p. 283 (1811).
Lunda, *Pall.* (17 ??).
Gymnoblepharum, *Brandt, Descr. et Icon.* (1836).
Ceratoblepharum, *Brandt, Descr. et Icon.* (1836).

### a. FRATERCULA.

#### 1. FRATERCULA ARCTICA. The Puffin.

Alca arctica, *Linn. S. N.* i. p. 211; *Brünn. Orn. Bor.* p. 23.
Mormon fratercula, *Temm. Man. d'Orn.* 1815, p. 614; *Brehm, Vög. Deuts.* p. 997.
Mormon arcticus, *Macgill. Man. N. H. Ornith.* ii. p. 218; *Pr. Bonap. Geogr. Comp. List. of B.* p. 66; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 108.

Alca labradora, *Gmel. S. N.* i. p. 550.
Alca canogularis, *Meyer, Taschenb. Deuts.* ii. p. 442.
Alca deleata, *Brünn. Orn. Bor.* p. 25.
Mormon polaris, *Brehm, Vög. Deuts.* p. 998.
Mormon grabæ, *Brehm, Vög. Deuts.* p. 999, t. 46, f. 1.
Lunda arctica, *Pall. Zoogr.* ii. p. 365; *Keys. & Bl. Wirbelth. Eur.* p. 92; *Naum. Vög. Deuts.* (1844) xii. p. 577, t. 335.
Fratercula arctica, *Illig. Prod.* p. 284; *Leach, Syst. Cat. Mam. & B. B. M.* p. 42; *Flem. Brit. An.* p. 130; *Jenyns, Man. B. Vert. An.* p. 260; *Eyton, Cat. Brit. B.* p. 49; *G. R. Gray, Gen. of B.* iii. p. 637.
Puffin, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 168, fig.; *Yarr. Brit. B.* 2 edit. iii. p. 469, fig.
Common Puffin, *Selby, Brit. Orn.* ii. p. 439.
Puffin Auk, *Penn. Brit. Zool.* (1812) ii. p. 152.

*Pl. enl.* 275; *Gould, B. of Eur.* pl. 403.

*a.* Pembrokeshire. From Col. Montagu's collection.
*b.* Great Britain.
*c, d.* Scilly Islands. Presented by D. W. Mitchell, Esq.
*e.* Great Britain. Young. From Mr. Bullock's collection.
*f.* Scilly Islands. Very young. Presented by D. W. Mitchell, Esq.
*g.* Ferroe. Presented by T. Frank, Esq.
*h, i.* Craigs of Hoy, Orkney. Very young. From Mr. J. Baker's collection.

## ii. *Urinæ.*

### 1. URIA.

Uria, *Mœhr. Av. Gen.* p. 67 (1752).
Grylle, *Brandt, Descr. et Icon.* (1836).
Cataractes, *Mœhr. Avium Gen.* p. 68 (1752).
Lomvia, *Brandt, Descr. et Icon.* (1836).

### a. Uria.

#### 1. Uria troile. The Common Guillemot.

Colymbus troile, *Linn. S. N.* i. p. 220.
Uria troile, *Lath. Ind. Orn.* ii. p. 796; *Brünn. Orn. Bor.* p. 27; *Temm. Man. d'Orn.* 1815, p. 606; *Leach, Syst. Cat. Mam. & B. B. M.* p. 42; *Boie, Isis* (1822), p. 562; *Steph. Gen. Zool.* xii. p. 244, pl. 62; *Flem. Brit. An.* p. 134; *Brehm, Vög. Deuts.* p. 981;

*Jenyns, Man. B. Vert. An.* p. 258; *Eyton, Cat. Brit. B.* p. 49; *Pr. Bonap. Geogr. Comp. List of B.* p. 64; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 107; *Macgill. Man. N. H. Ornith.* ii. p. 212; *G. R. Gray, Gen. of B.* iii. p. 645.

Cepphus lomvia, *Pall. Zoogr.* ii. p. 345.

Uria lomvia, *Brünn. Orn. Bor.* p. 27; *Keys. & Bl. Wirbelth. Eur.* p. 92; *Naum. Vög. Deuts.* (1844) xii. p. 508, t. 331.

Uria suarbag, *Brünn. Orn. Bor.* p. 27.

Colymbus minor, *Gmel. S. N.* i. p. 591.

Uria minor, *Steph. Gen. Zool.* xii. p. 246, pl. 63.

Uria norwegica, *Brehm, Vög. Deuts.* p. 933.

Foolish Guillemot, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 160; *Selby, Brit. Orn.* ii. p. 420.

Guillemot, *Bew. Brit. B.* (1804) ii. p. 175, fig.

Lesser Guillemot, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 177, fig.

Common Guillemot, *Yarr. Brit. B.* 2 edit. iii. p. 450, fig.

*Pl. enl.* 903; *Gould, B. of Eur.* pl. 396.

*a*, *b*. Great Britain.

*c*, *d*. Great Britain. From Col. Montagu's collection.

*e*. Devonshire. From Col. Montagu's collection.

*f*—*h*. Craigs of Hoy, Orkney. Very young. From Mr. J. Baker's collection.

*i*. Sternum. England. Presented by T. Ingall, Esq.

*j*. Skull. England. Presented by John Ray, Esq.

?2 URIA RINGVIA. The Ringed Guillemot.

Uria leucophthalmos, *Faber, Prodr. p.* 42.

Uria ringvia, *Brünn. Orn. Bor.* p. 27.

Uria hringvia, *Keys. & Bl. Wirbelth. Eur.* p. 93; *Naum. Vög. Deuts.* (1844) xii. p. 524, t. 332; *G. R. Gray, Gen. of B.* iii. p. 645.

Uria troile (pt.), *Temm. Man. d'Orn.* 1815, p. 607.

Uria lacrymans, *Valenc. Chloris, Voy.* pl. xxiii.; *Temm. Man. d'Orn.* (1840) iv. p. 574.

Uria leucopsis, *Brehm, Vög. Deuts.* p. 982.

Alca s. Colymbus Laugvigia, *Dlaff. Reise n. Isl.* d. 562, t. 21.

Uria troile leucophthalmos, *Schleg. Rev. Crit. des Ois. d'Eur.* p. 107.

Uria alga, *Brünn. Orn. Bor.* p. 28.

Ringed Guillemot, *Yarr. Brit. B.* 2 edit. iii. p. 458, fig.

*Gould, B. of Eur.* pl. 397.

(Wales).

### 3. Uria Brunnichii. Brünnich's Guillemot.

Uria Brunnichii, *Sabine, Linn. Trans.* xii. p. 538; *Temm. Man. d'Orn.* (1820) p. 924; *Boie, Isis* (1822), p. 562; *Flem. Brit. An.* p. 134; *Brehm, Vög. Deuts.* p. 984; *Jenyns, Man. B. Vert. An.* p. 258; *Pr. Bonap. Geogr. Comp. List of B.* p. 65; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 106; *Macgill. Man. N. H. Ornith.* ii. p. 212; *G. R. Gray, Gen. of B.* iii. p. 645.
Uria Francsii, *Leach, Linn. Trans.* xii. p. 588; *Steph. Gen. Zool.* xii. p. 243.
Cepphus arra, *Pall. Zoogr.* ii. p. 347.
Uria Troile, *Brünn. Orn. Bor.* p. 27.
Uria polaris, *Brehm, Vög. Deuts.* p. 984.
Uria pica, *Fab. Faun. Grænl.* p. 79.
Uria arra, *Keys. & Bl. Wirbelth. Eur.* p. 92; *Naum. Vög. Deuts.* (1844) xii. p. 535, t. 333.
Alca Lomvia, *Linn. S. N.* 10 edit. p. 130.
Brunnich's Guillemot, *Yarr. Brit. B.* 2 edit. iii. p. 455, fig.
*Gould, B. of Eur.* pl. 398.
(Coast of Kerry and Shetland Islands).

## b. Grylle.

### 4. Uria grylle. The Black Guillemot.

Colymbus grylle, *Linn. S. N.* i. p. 220.
Uria grylle, *Lath. Ind. Orn.* ii. p. 797; *Temm. Man. d'Orn.* 1815, p. 608; *Leach, Syst. Cat. Mam. & B. B. M.* p. 42; *Jenyns, Man. B. Vert. An.* p. 258; *Eyton, Cat. Brit. B.* p. 49; *Pr. Bonap. Geogr. Comp. List of B.* p. 65; *Keys. & Bl. Wirbelth. Eur.* p. 92; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 107; *Macgill. Man. N. H. Ornith.* ii. p. 213; *G. R. Gray, Gen. of B.* iii. p. 645.
Colymbus lacteolus, *Gmel. S. N.* i. p. 583.
Uria lacteola, *Lath. Ind. Orn.* ii. p. 798.
Uria balthica, *Brünn. Orn. Bor.* p. 28.
Uria grylloides, *Brünn. Orn. Bor.* p. 28.
Uria scapularis, *Steph. Gen. Zool.* xii. p. 250, pl. 64.
Cepphus lacteolus, *Pall. Spic. Zool.* v. p. 33.
Cepphus columba, *Pall. Zoogr.* ii. p. 348.
Cephus grylle, *Boie, Isis* (1822), p. 562; *Flem. Brit. An.* p. 134; *Brehm, Vög. Deuts.* p. 987; *Naum. Vög. Deuts.* (1844) xii. p. 461, t. 330.
Cephus arcticus, *Brehm, Vög. Deuts.* p. 988.

Cephus Meisneri, *Brehm, Vög. Deuts.* p. 989.
Cephus Faerroeensis, *Brehm, Vög. Deuts.* p. 990.
Cephus glacialis, *Brehm, Vög. Deuts.* p. 991 ?
Grylle columba, *Pr. Bonap. Geogr. Comp. List of B.* p. 82.
Black Guillemot, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 179, fig.; *Penn. Brit. Zool.* (1812) ii. p. 163; *Selby, Brit. Orn.* ii. p. 426; *Yarr. Brit. B.* 2 edit. iii. p. 462, fig.
Spotted Guillemot, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 181.

*Gould, B. of Eur.* pl. 399.

*a—d.* Orkney Islands. From Mr. Bullock's collection.
*e.* Great Britain. Young. From Col. Montagu's collection.
*f.* Great Britain. Young.
*g—i.* Craigs of Hoy, Orkney. Very young. From Mr. J. Baker's collection.
*j.* Craigs of Hoy. Adult. From Mr. J. Baker's collection.
*k.* Craigs of Hoy. Young. From Mr. J. Baker's collection.
*l.* Leadenhall Market. From Mr. J. Baker's collection.

## 2. ARCTICA.

Arctica, *Mœhr. Av. Gen.* p. 65 (1752).
Mergulus, *Vieill. Analyse, &c.*, p. 67 (1816).

### 1. Arctica alle. The Little Auk.

Alca alle, *Linn. S. N.* i. p. 211.
Uria alle, *Temm. Man. d'Orn.* 1815, p. 611.
Arctica alle, *G. R. Gray, List of Gen. of B.* (1841) p. 98; *Gen. of B.* iii. p. 645.
Mergulus melanoleucos, *Leach, Syst. Cat. Mam. & B. B. M.* p. 42; *Steph. Gen. Zool.* xiii. p. 34, pl. 3; *Flem. Brit. An.* p. 135; *Eyton, Cat. Brit. B.* p. 49.
Alca candida, *Brünn. Orn. Bor.* p. 26.
Mergulus alle, *Vieill., Boie, Isis* (1822), p. 562; *Brehm, Vög. Deuts.* p. 993; *Jenyns, Man. B. Vert. An.* p. 259; *Pr. Bonap. Geogr. Comp. List of B.* p. 65; *Keys. & Bl. Wirbelth. Eur.* p. 92; *Naum. Vög. Deuts.* (1844) xii. p. 552, t. 334; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 108; *Macgill. Man. N. H. Ornith.* ii. p. 215.
Mergulus arcticus, *Brehm, Vög. Deuts.* p. 994.
Little Auk, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 172, fig.; *Penn. Brit. Zool.* (1812) ii. p. 158; *Yarr. Brit. B.* 2 edit. iii. p. 465, fig.

ROYAL ASIATIC SOCIETY

Common Rotche, *Selby, Brit. Orn.* ii. p. 430. *Pl. enl.* 917; *Gould, B. of Eur.* pl. 402.

*a.* Devonshire. Male. From Col. Montagu's collection.
*b.* Great Britain. Presented by J. Engleheart, Esq.
*c.* Orkney Islands. Female.
*d.* Orkney Islands. Young.

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## Fam. IV. PROCELLARIDÆ.

### i. *Procellarinæ.*

### 1. PUFFINUS.

Puffinus, *Briss. Ornith.* vi. p. 130 (1760).
Thiella, *Gloger* (1827).
Nectris, *Kuhl.* (1820).
Cymotomus, *Macgill. Man. N. H. Ornith.* ii. p. 13 (1842).

#### 1. Puffinus major. The Greater Shearwater.

Procellaria puffinus, *Linn. S. N.* i. p. 213; *Temm. Man. d'Orn.* (1820) p. 805; *Jenyns, Man. B. Vert. An.* p. 284.
Procellaria cinerea, *Gmel. S. N.* i. p. 563.
Puffinus cinereus, *Steph. Gen. Zool.* xiii. p. 227; *Eyton, Cat. Brit. B.* p. 50; *Temm. Man. d'Orn.* (1840) iv. p. 506.
Puffinus puffinus (*Cuv.*), *Boie, Isis* (1822), p. 562.
Nectris cinerea, *Keys. & Bl. Wirbelth. Eur.* p. 94.
Puffinus major, *Faber, Prodr.* p. 56; *Temm. Man. d'Orn.* (1840) iv. p. 507; *G. R. Gray, Gen. of B.* iii. p. 647.
Puffinus arcticus, *Macgill. Man. N. H. Ornith.* ii. p. 262.
Cymotomus arcticus, *Macgill. Man. N. H. Ornith.* ii. p. 13.
Puffinus fuliginosus, *Kuhl, Beitr.* p. (?); *A. Strickl. Proc. Zool. S.* 1832, p. 129; *Eyton, Cat. Brit. B.* p. 50.
Procellaria fuliginosa, *Forst. Descr. Mam.* p. (?) non *Gmel.; Jenyns, Man. B. Vert. An.* p. 285.
Procellaria major (pt.), *Temm. Man. d'Orn.* (1840) iv. p. 509.
Nectris fuliginosa, *Soland. MSS.; Keys. & Bl. Wirbelth. Eur.* p. 94.
Cinereous Shearwater, *Selby, Brit. Orn.* ii. p. 528; *Eyton, Hist. R. Brit. B.* p. 49, fig.
Greater Shearwater, *Yarr. Brit. B.* 2 edit. iii. p. 624, fig.

Dusky Shearwater, *Eyton*, *Hist. R. Brit. B.* p. 51, fig.

*Gould*, *B. of Eur.* pl. 445, f. 1, 2.

*a*. Polperro, Cornwall. Presented by D. W. Mitchell, Esq.
*b*—*d*. Craigs of Hoy. Very young. From Mr. J. Baker's collection.

### 2. Puffinus anglorum. The Manx Shearwater.

Procellaria puffinus, *Brünn. Orn. Bor.* p. 29; *Lath. Ind. Orn.* ii. p. 824; *Leach*, *Syst. Cat. Mam. & B. B. M.* p. 41.
Puffinus anglorum (*Ray*), *Boie*, *Isis* (1822) p. 562; *Steph. Gen. Zool.* xiii. p. 226, pl. 26; *Flem. Brit. An.* p. 137; *Brehm*, *Vög. Deuts.* p. 807; *Jenyns*, *Man. B. Vert. An.* p. 285; *Eyton*, *Cat. Brit. B.* p. 50; *Macgill. Man. N. H. Ornith.* ii. p. 262; *G. R. Gray*, *Gen. of B.* iii. p. 647.
Procellaria anglorum, *Temm. Man. d'Orn.* (1820) ii. p. 806.
Nectris puffinus, *Keys. & Bl. Wirbelth. Eur.* p. 94.
Cymotomus anglorum, *Macgill. Man. N. H. Ornith.* ii. p. 13.
Puffinus arcticus, *Faber*, *Prodr.* p. 56; *Brehm*, *Vög. Deuts.* p. 806, t. 39, f. 4; *Naum. Vög. Deuts.* (1840) x. p. 618, t. 277; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 132.
Shearwater, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 246, fig.; *Penn. Brit. Zool.* (1812) ii. p. 206.
Manks Shearwater, *Selby*, *Brit. Orn.* ii. p. 529.
Manx Shearwater, *Yarr. Brit. B.* 2 edit. iii. p. 631, fig.

*Edw. Birds*, pl. 359; *Gould*, *B. of Eur.* pl. 443.

*a*. British Sea. From Col. Montagu's collection.
*b*. Scillly Islands. Adult male. Presented by D. W. Mitchell, Esq.
*c*. Scilly Islands. Adult female. Presented by D. W. Mitchell, Esq.

### 3. Puffinus obscurus. The Dusky Shearwater.

Procellaria obscura, *Gmel. S. N.* i. p. 559; *Temm. Man. d'Orn.* ii. p. 808.
Puffinus obscurus, *Kuhl*, *Beitr.* t. 11, f. 11; *Macgill. Man. N. H. Ornith.* ii. p. 263.
Cymotomus obscurus, *Macgill. Man. N. H. Ornith.* ii. p. 13.
Nestris obscura, *Keys. & Bl. Wirbelth. Eur.* p. 94.

(" Sometimes been found far north," *Macgill.*)

## 2. THALASSIDROMA.

Thalassidroma, *Vigors, Zool. Journ.* 1825, p. 405.
Procellaria, *Mœhr. Av. Gen.* p. 67 (1752).
Hydrobates, *Boie, Isis* (1822), p. 562.
Oceanites, *Keys. & Bl. Wirbelth. Eur.* p. 93 (1840).
Bulweria, *Pr. Bonap.* (1842).

### a. BULWERIA.

#### 1. THALASSIDROMA BULWERI. Bulwer's Petrel.

Procellaria Bulwerii, *Jard. & Selby, Illustr. of Ornith.* pl. 65.
Procellaria anjinko, *Heik.*
Procellaria (Puffinus) columbina, *Webb & Berth. Voy. Canar.* t. 4, f. 2.
Thalassidroma ? Bulweri, *Gould, B. of Eur.* pl. 448; *Keys. & Bl. Wirbelth. Eur.* p. 93; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 134; *Macgill. Man. N. H. Ornith.* ii. p. 264; *G. R. Gray, Gen. of B.* iii. p. 648.
Bulwer's Petrel, *Yarr. Brit. B.* 2 edit. iii. p. 636, fig.
*Gould, B. of Eur.* pl. 448.
(Banks of the Ure, Yorkshire).

### b. THALASSIDROMA.

#### 2. THALASSIDROMA PELAGICA. The Stormy Petrel.

Procellaria pelagica, *Linn. S. N.* i. p. 212; *Temm. Man. d'Orn.* 1815, p. 519; *Leach, Syst. Cat. Mam. & B. B. M.* p. 41; *Steph. Gen. Zool.* xiii. p. 220; *Flem. Brit. An.* p. 135; *Jenyns, Man. B. Vert. An.* p. 285.
Hydrobates pelagica, *Boie, Isis* (1822), p. 562; *Brehm, Vög. Deuts.* p. 804.
Hydrobates Farroeensis, *Brehm, Vög. Deuts.* p. 803.
Thalassidroma pelagica, *Vigors, Zool. Journ.* ii. p. 405; *Selby, Brit. Orn.* ii. p. 533; *Eyton, Cat. Brit. B.* p. 51; *Temm. Man. d'Orn.* (1840) iv. p. 514; *Keys. & Bl. Wirbelth. Eur.* p. 93; *Naum. Vög. Deuts.* (1840) x. p. 557, t. 275; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 133; *Macgill. Man. N. H. Ornith.* ii. p. 266; *G. R. Gray, Gen. of B.* iii. p. 648.

Thalassidroma melitensis, *Schemb. Cat. Orn. del Grappo di Malta*, p. 118.
Stormy Petrel, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 249, fig.; *Penn. Brit. Zool.* (1812) ii. p. 208.
Common Storm Petrel, *Selby, Brit. Orn.* ii. p. 533.
Storm Petrel, *Yarr. Brit. B.* 2 edit. iii. p. 647, fig.

*Gould, B. of Eur.* pl. 477, f. 2.

*a*—*c*. British Channel.
*d*. British Channel. Presented by J. Gould, Esq.
*e*. Shetland Islands. Male. From Mr. J. Baker's collection.
*f*. Shetland Islands. Female. From Mr. J. Baker's collection.
*g*—*i*. Three sterna. England. Presented by John Ray, Esq.

### 3. Thalassidroma Leachii. The Forked-tailed Petrel.

Procellaria Leachii, *Temm. Man. d'Orn.* (1820) ii. p. 812; *Steph. Gen. Zool.* xiii. p. 219, pl. 25; *Jenyns, Man. B. Vert. An.* p. 286.
Hydrobates Leachii, *Boie, Isis* (1822), p. 562.
Thalassidroma Leachii, *Keys. & Bl. Wirbelth. Eur.* p. 93; *Naum. Vög. Deuts.* (1840) x. p. 575, t. 275, f. 2; *Temm. Man. d'Orn.* (1840) iv. p. 512; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 133; *Macgill. Man. N. H. Ornith.* ii. p. 265; *G. R. Gray, Gen. of B.* iii. p. 648.
Procellaria Bullockii, *Flem. Brit. An.* p. 136.
Thalassidroma Bullockii, *Selby, Brit. Orn.* ii. p. 537; *Eyton, Cat. Brit. B.* p. 51.
Fork-tailed Storm Petrel, *Selby, Brit. Orn.* ii. p. 537.
Forked-tailed Petrel, *Yarr. Brit. B.* 2 edit. iii. p. 643, fig.

*Gould, B. of Eur.* pl. 477, f. 1.

*a*. St. Kilda. From Mr. Bullock's collection.

## c. Oceanites.

### 4. Thalassidroma oceanica. Wilson's Petrel.

Procellaria Wilsoni, *Pr. Bonap. Syn. B. of Amer.* p. 367; *Jenyns, Man. B. Vert. An.* p. 286.
Procellaria pelagica, *Wils. Amer. Orn.* vii. p. 90, pl. 60, f. 6.
Oceanites Wilsoni, *Keys. & Bl. Wirbelth. Eur.* p. 93.
Thalassidroma Wilsonii, *Pr. Bonap. Journ. Phil.* ix. t. viii. f. 3, 3 *a*; *Temm. Man. d'Orn.* (1840) iv. p. 512; *Macgill. Man. N. H. Ornith.* ii. p. 265.

Procellaria oceanica, *Kuhl, Beitr. Zool.* t. 10, f. 1; *Lichtenb. Cat. Dupl. Berl. Mus.* p. 83.
Thalassidroma oceanica, *G. R. Gray, Gen. of B.* iii. p. 648.
Wilson's Petrel, *Yarr. Brit. B.* 2 edit. iii. p. 639, fig.

*Pl. enl.* 993.

(British Channel).

## 3. PROCELLARIA.

Procellaria, *Linn. S. N.* (1748).
Fulmarus, *Leach, Steph. Gen. Zool.* xiii. p. 233 (1826).
Rhantistes, *Kaup, Naturl. Syst. der Eur. Thier.* p. 105 (1829).
Daption, *Steph. Gen. Zool.* xiii. p. 239 (1825).
Ossifraga, *Homb. & Jacq.* (1844).
Priofinus, *Homb. & Jacq.* (1844).

### a. PROCELLARIA.

#### 1. PROCELLARIA GLACIALIS. The Fulmar Petrel.

Procellaria glacialis, *Linn. S. N.* i. p. 213; *Temm. Man. d'Orn.* 1815, p. 518; *Boie, Isis* (1822), p. 562; *Flem. Brit. An.* p. 135; *Brehm, Vög. Deuts.* p. 799; *Flem. Brit. An.* p. 284; *Keys. & Bl. Wirbelth. Eur.* p. 94; *Naum. Vög. Deuts.* (1840) x. p. 589, t. 276; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 132; *Macgill. Man. N. H. Ornith.* ii. p. 260; *G. R. Gray, Gen. of B.* iii. p.
Fulmarus glacialis, *Steph. Gen. Zool.* xiii. p. 234, pl. 27; *Eyton, Cat. Brit. B.* p. 50.
Procellaria hiemalis, *Brehm, Vög. Deuts.* p. 800.
Rhantistes glacialis, *Kaup, Naturl. Syst.* p. 105.
Fulmar or Fulmer, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 243, fig.
Fulmar Petrel, *Penn. Brit. Zool.* (1812) ii. p. 203, pl.; *Selby, Brit. Orn.* ii. p. 525; *Yarr. Brit. B.* 2 edit. iii. p. 619, fig.

*Pl. enl.* 59; *Gould, B. of Eur.* pl. 446.

*a*. St. Kilda.
*b*. Orkney Islands. Young. From Mr. Bullock's collection.

# Fam. V. LARIDÆ.

## i. *Larinæ*.

### 1. STERCORARIUS.

Stercorarius, *Briss. Orn.* vi. p. 149 (1760).
Catharacta, *Brünn. Orn.* p. 32. (1764).
Lestris, *Illig. Prod. Mam. & Av.* p. 272 (1811).
Prædatrix, *Vieill. Analyse, &c.* (1816) p. 65.
Buphagus, *Mœhr. Av. Gen.* p. 66 (1752).

#### 1. Stercorarius catarrhactes. The Common Skua.

Larus catarractes, *Linn. S. N.* i. p. 226.
Cataractes vulgaris, *Flem. Brit. An.* p. 137.
Catarracta skua, *Retz. Faun. Suec.* p. 161.
Catharacta skua, *Brünn. Orn. Bor.* p. 125.
Catarractes skua, *Steph. Gen. Zool.* xiii. p. 215; *Macgill. Man. N. H. Ornith.* ii. p. 255.
Lestris catarractes, *Ill. Prod.* p. 272; *Temm. Man. d'Orn.* 1815, p. 511; *Boie, Isis* (1822), p. 562; *Brehm, Vög. Deuts.* p. 715; *Jenyns, Man. B. Vert. An.* p. 280; *Eyton, Cat. Brit. B.* p. 51; *Keys. & Bl. Wirbelth. Eur.* p. 94; *Naum. Vög. Deuts.* (1840) x. p. 470, t. 270; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 134.
Catarracta fusca, *Leach, Syst. Cat. Mam. & B. B. M.* p. 40.
Lestris skua, *Brehm, Vög. Deuts.* p. 716.
Stercorarius catarrhactes, *G. R. Gray, Gen. of B.* iii. p. 653.
Skua Gull, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 233, fig.; *Penn. Brit. Zool.* (1812) ii. p. 174.
Common Skua, *Selby, Brit. Orn.* ii. p. 514; *Yarr. Brit. B.* 2 edit. iii. p. 602, fig.

*Gould, B. of Eur.* pl. 439.

*a*. Devonshire. From Col. Montagu's collection.
*b*. Young. Presented by J. Franco, Esq.
*c*. Young. From Mr. Bullock's collection.

#### 2. Stercorarius pomarinus. The Pomarine Skua.

Lestris pomarinus, *Temm. Man. d'Orn.* 1815, ii. p. 514; *Boie, Isis* (1822), p. 562; *Jenyns, Man. B. Vert. An.* p. 281; *Keys. & Bl. Wirbelth. Eur.* p. 94; *Naum. Vög. Deuts.* (1840) x. p. 487, t. 271; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 134.

Catarractes pomarina, *Steph. Gen. Zool.* xiii. p. 216, pl. 24 ; *Macgill. Man. N. H. Ornith.* ii. p. 256.
Lestris striatus (*Briss.*), *Eyton, Cat. Brit. B.* p. 51.
Lestris sphæriuros, *Brehm, Vög. Deuts.* p. 718.
Larus parasiticus, *Wolf und Meyer, Taschenb.* ii. p. 490.
Catarractes parasita, *var.* camtschatica, *Pall. Zoogr.* ii. p. 312.
Stercorarius pomarinus, *G. R. Gray, Gen. of B.* iii. p. 653.
Pomarine Skua, *Selby, Brit. Orn.* ii. p. 517; *Eyton, Hist. R. Brit. B.* p. 53, fig.; *Yarr. Brit. B.* 2 edit. iii. p. 606, fig.

*Gould, B. of Eur.* pl. 440.

α. North Britain. Young. From Mr. Bullock's collection.

### 3. Stercorarius parasiticus. The Arctic Skua.

Larus parasiticus, *Linn. S. N.* i. p. 226.
Lestris parasitica, *Temm. Man. d'Orn.* (1820) ii. p. 797; *Boie, Isis* (1822), p. 562; *Brehm, Vög. Deuts.* p. 722; *Keys. & Bl. Wirbelth. Eur.* p. 95; *Naum. Vög. Deuts.* (1840) x. p. 510, t. 272, 273.
Lestris Richardsoni, *Swains. Fauna Bor. Amer.* ii. p. 433, pl. 73 ; *Temm. Man. d'Orn.* (1840) p. 499; *Eyton, Cat. Brit. B.* p. 51.
Larus crepidatus, *Gmel. S. N.* i. p. 602.
Lestris crepidatus, *Temm. Man. d'Orn.* 1815, p. 515.
Catharacta coprotheres, *Brünn. Orn. Bor.* p. 38.
Catharacta parasitica, *Retz. Faun. Suec.* p. 160; *Brünn. Orn. Bor.* p. 37.
Cataracta cepphus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 39.
Cataractes parasita, *Pall. Zoogr.* ii. p. 310.
Catarractes parasiticus, *Flem. Brit. An.* p. 138.
Stercorarius parasiticus, *G. R. Gray, Gen. of B.* iii. p. 653.
Stercorarius cepphus, *Steph. Gen. Zool.* xiii. p. 211, pl.
Lestris Boji, *Brehm, Vög. Deuts.* p. 719.
Lestris Schleepii, *Brehm, Vög. Deuts.* p. 720.
Lestris Benickii, *Brehm, Vög. Deuts.* p. 723, t. 37, f. 1.
Cataractes Richardsonii, *Macgill. Man. N. H. Ornith.* ii. p. 267.
Arctic Gull, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 239; *Penn. Brit. Zool.* (1812) ii. p. 179, pl. 32.
Arctic Skua, *Selby, Brit. Orn.* ii. p. 520.
Black-toed Gull, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 236, fig.; *Penn. Brit. Zool.* (1812) ii. p. 178, pl. 31, low. fig.
Richardson's Skua, *Yarr. Brit. B.* 2 edit. iii. p. 611, fig.

*Pl. enl.* 762 ; *Gould, B. of Eur.* pl. 441.

*a*. Brighton. Young.
*b*. Hills of Hoy, Orkney. Young. From Mr. J. Baker's collection.
*c*. Hills of Hoy, Orkney. Male. From Mr. J. Baker's collection.
*d*. Hills of Hoy, Orkney. Female. From Mr. J. Baker's collection.
*e*. Hills of Hoy, Orkney. Very young. From Mr. J. Baker's collection.

### 4. Stercorarius cepphus. Buffon's Skua.

Lestris Buffonii, *Boie, Isis* (1822), p. 562; *Meyer, Taschenb.* iii. p. 212; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 135.
Lestris parasiticus? *Swains. Faun. Bor. Amer.* p. 430; *Temm. Man. d'Orn.* (1840) p. 502; *Jenyns, Man. B. Vert. An.* p. 283; *Eyton, Cat. Brit. B.* p. 52.
Stercorarius cepphus, *G. R. Gray, Gen. of B.* iii. p. 653.
Catharacta cepphus, *Brünn. Orn. Bor.* p. 36; *Keys. & Bl. Wirbelth. Eur.* p. 95.
Cataractes parasitica, *Pall. Zoogr.* ii. p. 310.
Lestris crepidata, *Brehm, Vög. Deuts.* p. 724; *Naum. Vög. Deuts.* (1840) x. p. 534, t. 274.
Cataractes longicaudatus, *Macgill. Man. N. H. Ornith.* ii. p. 258.
Arctic Jager, *Steph. Gen. Zool.* xiii. pl. 23; *Eyton, Hist. R. Brit. B.* p. 55, fig.
Buffon's Skua, *Yarr. Brit. B.* 2 edit. iii. p. 616, fig.
*Edwards, Birds*, pl. 148; *Gould, B. of Eur.* pl. 442.
*a*. Orkney Islands. From Col. Montagu's collection.

## 2. RHODOSTETHIA.

Rhodostethia, *Macgill. Man. N. H. Ornith.* ii. p. 252 (1842).
Rossia, *Pr. Bonap. Geogr. Comp. List of B.* p. 62 (1838).

### 1. Rhodostethia Rossii. Cuneate-tailed Gull.

Larus roseus, *Jard. & Selby, Illustr. of Ornith.* pl. 14; *Keys. & Bl. Wirbelth. Eur.* p. 95.
Larus Rossii, *Richardson, Parry, 2nd Voy. App.* p. 359; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 128; *Milner, in Zoologist*, 1847, p. 1694; *Charlesworth, in Zoologist*, 1847, p. 1782.

Rossia rosea, *Pr. Bonap. Geogr. Comp. List of B.* p. 62.
Rhodostethia Rossi, *Macgill. Man. N. H. Ornith.* ii. p. 253; *G. R. Gray, Gen. of B.* iii. p. 653.

*Wils. Illstr. of Ornith.* pl. 8.

(Yorkshire and Ireland).

## 3. LARUS.

Larus, *Linn. S. N.* (1735).
Gavia, *Mœhr. Av. Gen.* p. 66 (1752).
Leucŏs, *Kaup, Naturl. Syst. der Eur. Thier.* p. 86 (1829).
Laroïdes, *Brehm, Vög. Deuts.* p. 737 (1831).
Chroicocephalus, *Eyton, Cat. Brit. B.* p. 53 (1836).
Chrœcocephalus, *Strickl.*
Ichthyaëtus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 102 (1829).
Hydrocolæus, *Kaup, Naturl. Syst. der Eur. Thier.* p. 113 (1829).

### a. LEUCUS.

#### 1. LARUS GLAUCUS. The Glaucous Gull.

Larus glaucus, *Brünn. Orn. Bor.* p. 44; *Sabine, Linn. Trans.* xii. p. 757; *Temm. Man. d'Orn.* (1820) ii. p. 757; *Boie, Isis* (1822), p. 562; *Steph. Gen. Zool.* xiii. p. 189; *Flem. Brit. An.* p. 139; *Jenyns, Man. B. Vert An.* p. 279; *Eyton, Cat. Brit. B.* p. 53; *Brehm, Vög. Deuts.* p. 733; *Naum. Vög. Deuts.* (1840) x. p. 350, t. 264; *Keys. & Bl. Wirbelth. Eur.* p. 96; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 125; *Macgill. Man. N. H. Ornith.* ii. p. 247; *G. R. Gray, Gen. of B.* iii. p. 654.
Larus glacialis, *Benicke, Macgill. Wern. Trans.* v. p. 270; *Brehm, Vög. Deuts.* p. 732.
Larus gigantens, *Benicke.*
Larus consul, *Boie, Wied. Zool. Mag.* i. p. 757; *Brehm, Vög. Deuts.* p. 735.
Leucus glaucus, *Kaup, Naturl. Syst.* p. 86.
Iceland Gull, *Edmondst. Wern. Trans.* iv. p. 176, 503.
Glaucous Gull, *Selby, Brit. Orn.* ii. p. 498; *Yarr. Brit. B.* 2 edit. iii. p. 595, fig.

*Gould, B. of Eur.* pl. 432.

*a.* Shetland Islands.
*b.* Great Britain. Young. From Mr. Bullock's collection.
*c.* Orkney Islands.

### 2. Larus leucopterus. The Iceland Gull.

Larus leucopterus, *Faber, Prodr. Isl. Orn.* p. 91; *Rich. & Swains. Fauna Bor. Amer.* p. 418; *Eyton, Cat. Brit. B.* p. 53; *Temm. Man. d'Orn.* (1840) iv. p. 467; *Naum. Vög. Deuts.* (1840), x. p. 367, t. 265; *Keys. & Bl. Wirbelth. Eur.* p. 96; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 125; *Macgill. Man. N. H. Ornith.* ii. p. 247; *G. R Gray, Gen. of B.* iii. p. 654.
Larus argentatus, *Sabine, Linn. Trans.* xii. p. 546.
Larus glaucoides, *Temm., Boie, Isis* (1822), p. 562.
Larus arcticus, *Macgill. Wern. Trans.* v. p. 268.
Larus islandicus, *Edmonst. Wern. Trans.* iv. p. 506; *Flem. Brit. An.* p. 139; *Jenyns, Man. B. Vert. An.* p. 279.
Larus minor, *Brehm, Vög. Deuts.* p. 736, t. 37, f. 2.
Laroides glaucoides, *Brehm, Vög. Deuts.* p. 744.
Laroides leucopterus, *Brehm, Vög. Deuts.* p. 745.
Laroides subleucopterus, *Brehm, Vög. Deuts.* p. 746.
Iceland Gull, *Selby, Brit. Orn.* ii. p. 501; *Eyton, Hist. R. Brit. B.* p. 59; *Yarr. Brit. B.* 2 edit. iii. p. 575, fig.

*Gould, B. of Eur.* pl. 433.

(Shetland, Frith of Forth, and Coast of England).

### 3. Larus marinus. The Great Black-backed Gull.

Larus marinus, *Linn. S. N.* i. p. 225; *Temm. Man. d'Orn.* 1815, p. 490; *Boie, Isis* (1822), p. 562; *Steph. Gen. Zool.* xiii. p. 186; *Flem. Brit. An.* p. 140; *Brehm, Vög. Deuts.* p. 731; *Jenyns, Man. B. Vert. An.* p. 278; *Eyton, Cat. Brit. B.* p. 53; *Naum. Vög. Deuts.* (1840) x. p. 439, t. 268, 269; *Keys. & Bl. Wirbelth. Eur.* p. 97; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 124; *Macgill. Man. N. H. Ornith.* ii. p. 244; *G. R. Gray, Gen. of B.* iii. p. 654.
Larus maximus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 40; *Brehm, Vög. Deuts.* p. 728.
Larus Mulleri, *Brehm, Vög. Deuts.* p. 729.
Larus Fabricii, *Brehm, Vög. Deuts.* p. 730.
Leucus marinus, *Kaup, Naturl. Syst.* p. 86.
Great Black-backed Gull, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 212, fig.; *Selby, Brit. Orn.* ii. p. 507; *Yarr. Brit. B.* 2 edit. iii. p. 591, fig.
Wagel, *Mont. Orn. Dict; Bew. Brit. B.* (1804) ii. p. 216, fig.

Wagel Gull, *Penn. Brit. Zool.* (1812) ii. p. 182.

*Pl. enl.* 266, 990; *Gould, B. of Eur.* pl. 430.

*a*. Carmarthen. From Col. Montagu's collection.
*b*. Carmarthen. From Col. Montagu's collection.
*c*. Scilly Islands. Young. Presented by D. W. Mitchell, Esq.
*d*. Great Britain. Male. From Mr. J. Baker's collection.
*e*. Great Britain. Female. From Mr. J. Baker's collection.
*f*. Great Britain. Young male. From Mr. J. Baker's collection.
*g*. Sternum. England. Presented by John Ray, Esq.
*h*. Skull. England. Presented by John Ray, Esq.

### 4. Larus fuscus. The Lesser Black-backed Gull.

Larus fuscus, *Linn. S. N.* i. p. 225; *Temm. Man. d'Orn.* 1815, p. 496; *Boie, Isis* (1822), p. 563; *Steph. Gen. Zool.* xiii. p. 194; *Flem. Brit. An.* p. 140; *Jenyns, Man. B. Vert. An.* p. 277; *Eyton, Cat. Brit. B.* p. 53; *Naum. Vög. Deuts.* (1840) x. p. 419, t. 267; *Keys. & Bl. Wirbelth. Eur.* p. 97; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 124; *G. R. Gray, Gen. of B.* iii. p. 654.
Larus flavipes, *Meyer, Taschenb.* ii. p. 469; *Temm. Man. d'Orn.* (1840) iv. p. 471; *Macgill. Man. N. H. Ornith.* ii. p. 245.
Larus cinereus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 40?
Laroides melanotus, *Brehm, Vög. Deuts.* p. 747.
Laroides barengorum, *Brehm, Vög. Deuts.* p. 748.
Laroides fuscus, *Brehm, Vög. Deuts.* p. 749.
Leucus fuscus, *Kaup, Naturl. Syst.* p. 86.
Less Black-backed Gull, *Mont. Orn. Dict.*
Lesser Black-backed Gull, *Selby, Brit. Orn.* ii. p. 509; *Yarr. Brit. B.* 2 edit. iii. p. 583, fig.

*Gould, B. of Eur.* pl. 431.

*a*. ——————? Male. From Col. Montagu's collection.
*b*. ——————? Young female. Presented by Joseph Sabine, Esq.
*c*. Scilly Islands. Presented by D. W. Mitchell, Esq.
*d*. Hills of Hoy, Orkney. Adult. From Mr. J. Baker's collection.
*e*—*g*. Hills of Hoy, Orkney. Very young. From Mr. J. Baker's collection.

### 5. Larus argentatus. The Herring Gull.

Larus argentatus, *Brünn. Orn. Bor.* p. 44; *Gmel. S. N.* i. p. 600; *Temm. Man. d'Orn.* (1820) p. 764; *Boie, Isis* (1822), p. 562; *Steph. Gen. Zool.* xiii. p. 191; *Flem. Brit. An.* p. 140; *Jenyns,*

*Man. B. Vert. An.* p. 276; *Eyton, Cat. Brit. B.* p. 52; *Naum. Vög. Deuts.* (1840) x. p. 379, t. 266; *Keys. & Bl. Wirbelth. Eur.* p. 96; *Schleg. Rev. Crit. des Ois. d'Eur* p. 124; *Macgill. Man. N. H. Ornith.* ii. p. 246; *G. R. Gray, Gen. of B.* iii. p. 654.

Larus glaucus, *Retz. Faun. Suec.* p. 156.

Larus glaucus, pt., *Temm. Man. d'Orn.* 1815, p. 493.

Laroides major, *Brehm, Vög. Deuts.* p. 738.

Laroides argentatus, *Brehm, Vög. Deuts.* p. 740.

Laroides argenteus, *Brehm, Vög. Deuts.* p. 741.

Laroides argentatoides, *Brehm, Vög. Deuts.* p. 742.

Laroides argentaceus, *Brehm, Vög. Deuts.* p. 742.

Laroides americanus, *Brehm, Vög. Deuts.* p. 743.

Herring Gull, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 214; *Penn. Brit. Zool.* (1812) ii. p. 181; *Selby, Brit. Orn.* ii. p. 504; *Yarr. Brit. B.* 2 edit. iii. p. 588.

Silvery Gull, *Penn. Arct. Zool.* ii. p. 533.

*Gould, B. of Eur.* pl. 434.

*a*. Great Britain. From Col. Montagu's collection.

*b*, *c*. Great Britain. Presented by Joseph Sabine, Esq.

*d*, *e*. Great Britain. From Col. Montagu's collection.

*f*. Great Britain.

*g*. Shetland Islands. Very young. From Mr. Bullock's collection.

*h*—*j*. Hills of Hoy, Orkney. Very young. From Mr. J. Baker's collection.

*k*. Hills of Hoy, Orkney. Adult. From Mr. J. Baker's collection.

*l*. Hills of Hoy, Orkney. Young. From Mr. J. Baker's collection.

*m*. Hills of Hoy, Orkney. Female. From Mr. J. Baker's collection.

*n*. Sternum. England. Presented by John Ray, Esq.

### 6. Larus canus. The Common Gull.

Larus canus, *Linn. S. N.* i. p. 224; *Temm. Man. d'Orn.* 1815, p. 499; *Leach, Syst. Cat. Mam. & B. B. M.* p. 40; *Boie, Isis* (1822), p. 563; *Steph. Gen. Zool.* xiii. p. 198; *Flem. Brit. An.* p. 140; *Jenyns, Man. B. Vert. An.* p. 275; *Eyton, Cat. Brit. B.* p. 52; *Keys. & Bl. Wirbelth. Eur.* p. 96; *Naum. Vög. Deuts.* (1840) x. p. 301, t. 261; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 125; *Macgill. Man. N. H. Ornith.* ii. p. 248.

Larus hybernus, *Gmel. S. N.* i. p. 596; *G. R. Gray, Gen. of B.* iii. p. 654.

Larus cyanorhynchus, *Meyer, Taschenb.* p. 480.

Larus procellosus, pt., *Bechst. Naturg. Deuts.* iv. p. 647.
Laroides procellosus, *Brehm, Vög. Deuts.* p. 750.
Laroides canus, *Brehm, Vög. Deuts.* p. 751.
Laroides canescens, *Brehm, Vög. Deuts.* p. 753.
Common Gull, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 218, fig.; *Penn. Brit. Zool.* (1812) ii. p. 184, pl. 34, low. fig.; *Selby, Brit. Orn.* ii. p. 490; *Yarr. Brit. B.* 2 edit. iii. p. 570, fig.
Winter Gull, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 221; *Penn. Brit. Zool.* (1812) ii. p. 185.

*Gould, B. of Eur.* pl. 437.

*a*. Devonshire. From Col. Montagu's collection.
*b*. Thames. Presented by A. Cooper, Esq., R.A.
*c*. Hayling's Island. Presented by J. B. Tyndale, Esq.
*d*. Hills of Hoy, Orkney. Male. From Mr. J. Baker's collection.
*e*. Hills of Hoy, Orkney. Female. From Mr. J. Baker's collection.
*f—h*. Hills of Hoy, Orkney. Very young. From Mr. J. Baker's collection.
*i*. Sternum. England. Presented by John Ray, Esq.

## b. Chroicocephalus.

### 7. Larus atricilla. The Laughing Gull.

Larus atricilla, *Linn. S. N.* i. p. 225; *Temm. Man. d'Orn.* (1820) ii. p. 779; *Steph. Gen. Zool.* xiii. p. 205; *Flem. Brit. An.* p. 142; *Jenyns, Man. B. Vert. An.* p. 273; *Keys. & Bl. Wirbelth. Eur.* p. 96; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 127; *G. R. Gray, Gen. of B.* iii. p. 654.
Larus ridibundus, *Wils. Amer. Orn.* pl. 74, f. 4.
Xema atricilla, *Boie, Isis* (1822), p. 563.
Larus plumbiceps, *Brehm, Lehrb.* p. 722.
Gavia atricilla, *Macgill. Man. N. H. Ornith.* ii. p. 240.
Laughing Gull, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 193; *Yarr. Brit. B.* 2 edit. iii. p. 557, fig.

*Gould, B. of Eur.* pl. 426.

*a*. Winchelsea.

### 8. Larus ridibundus. The Black-headed Gull.

Larus ridibundus, *Linn. S. N.* i. p. 225; *Temm. Man. d'Orn.* 1815, p. 504; *Leach, Syst. Cat. Mam. & B. B. M.* p. 40; *Steph. Gen. Zool.* xiii. p. 201, pl. 22; *Flem. Brit. An.* p. 141; *Jenyns, Man.*

*B. Vert. An.* p. 272; *Keys. & Bl. Wirbelth. Eur.* p. 95; *Naum. Vög. Deuts.* (1840) x. p. 264, t. 260; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 126; *G. R. Gray, Gen. of B.* iii. p. 654.

Larus cinerarius, *Linn. S. N.* i. p. 224.

Larus canescens, *Bechst. Naturg. Deuts.* iv. p. 649.

Larus erythropus, *Gmel. S. N.* i. p. 597.

Larus procellosus, pt., *Bechst. Naturg. Deuts.* iv. p. 647.

Xema ridibundus, *Boie, Isis* (1822), p. 563; *Brehm, Vög. Deuts.* p. 760.

Xema pileatum, *Brehm, Vög. Deuts.* p. 761, t. 37, f. 4.

Chroicocephalus ridibundus, *Eyton, Cat. Brit. B.* p. 53.

Gavia ridibunda, *Kaup, Naturl. Syst.* p. 99; *Macgill. Man. N. H. Ornith.* ii. p. 240.

Larus atricilla, *Pall. Zoogr.* ii. p. 324.

Larus nævius, *Pall. Zoogr.* ii. p. 327.

Black-headed Gull, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 222, fig.; *Penn. Brit. Zool.* (1812) ii. p. 189; *Selby, Brit. Orn.* ii. p. 487; *Yarr. Brit. B.* 2 edit. iii. p. 550, fig.

Brown-headed Gull, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 226.

Red-legged Gull, *Mont. Orn. Dict.; Penn. Brit. Zool.* (1812) ii. p. 192.

Black-headed Gull, variety, *Penn. Brit. Zool.* (1812) ii. p. 191. *Pl. enl.* 969, 970; *Gould, B. of Eur.* pl. 425.

*a.* Devonshire. From Col. Montagu's collection.
*b*, *c.* Carmarthenshire. From Col. Montagu's collection.
*d.* Orkney Islands. From Mr. Bullock's collection.
*e*, *f.* Hills of Hoy, Orkney. From Mr. J. Baker's collection.
*g.* Hills of Hoy, Orkney. From Mr. J. Baker's collection.
*g.* Sternum. England. Presented by T. Ingall, Esq.

### 9. Larus capistratus. The Masked Gull.

Larus capistratus, *Temm. Man. d'Orn.* (1820) ii. p. 785; *Steph. Gen. Zool.* xiii. p. 204; *Flem. Brit. An.* p. 148; *Jenyns, Man. B. Vert. An.* p. 272.

Larus ridibundus, pt., *Keys. & Bl. Wirbelth. Eur.* p. 95; *Naum. Vög. Deuts.* (1840) x. p. 264; *G. R. Gray, Gen. of B.* iii. p. 654.

Larus ridibundus minor, *Schleg. Rev. Crit. des Ois. d'Eur.* p. 127.

Xema capistrata, *Boie, Isis* (1822) p. 563; *Brehm, Vög. Deuts.* p. 762.

Chroicocephalus capistratus, *Eyton, Cat. Brit. B.* p. 53.

Gavia capistrata, *Kaup, Naturl. Syst.* p. 99.

Masked Gull, *Lath. Hist. of B.* x. p. 139; *Yarr. Brit. B.* 2 edit. iii. p. 547, fig.
Brown-headed Gull, *Eyton, Hist. R. Brit. B.* p. 63.

a. Scotland. From Mr. Bullock's collection.

### 10. Larus Bonapartii. Bonaparte's Gull.

Larus Bonapartii, *Richards. & Swains. Faun. Bor. Amer.* ii. p. 425, pl. 72; *Thompson, Ann. & Mag. Nat. Hist.* (1848) p. 192; *Newm. Zoologist* (1848) p. 2069.
Xema Bonapartii, *Pr. Bonap. Geogr. Comp. List of B.* p. 62.
Larus capistratus, *Pr. Bonap.*

*Audub. B. of Amer.* pl. 324.

(Ireland).

## c. Hydrocolæus.

### 11. Larus minutus. The Little Gull.

Larus minutus, *Pall. Reis.* iii. p. 702; *Temm. Man. d'Orn.* 1815, p. 508; *Leach, Syst. Cat. Mam. & B. B. M.* p. 41; *Steph. Gen. Zool.* xiii. p. 206; *Flem. Brit. An.* p. 142; *Jenyns, Man. B. Vert. An.* p. 271; *Keys. & Bl. Wirbelth. Eur.* p. 95; *Naum. Vög. Deuts.* (1840) x. p. 242, t. 258; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 127; *G. R. Gray, Gen. of B.* iii. p. 654.
Larus atricilloïdes, *Falk. Reis.* iii. p. 355, t. 24.
Xema minutum, *Boie, Isis* (1822), p. 365; *Brehm, Vög. Deuts.* p. 763.
Hydrocolœus minutus, *Kaup, Naturl. Syst.* p. 113.
Chroicocephalus minutus, *Eyton, Cat. Brit. B.* p. 54.
Gavia minuta, *Macgill. Man. N. H. Ornith.* ii. p. 242.
Little Gull, *Mont. Orn. Dict. App. to Suppl.* with pl.; *Selby, Brit. Orn.* ii. p. 484; *Eyton, Hist. R. Brit. B.* p. 61, fig.; *Yarr. Brit. B.* 2 edit. iii. p. 543, fig.

*Gould, B. of Eur.* pl. 428.

a. Devonshire. From Col. Montagu's collection.

## 4. XEMA.

Xema, *Leach*, *Ross's Voy. App.* (1825).

### 1. Xema Sabini. Sabine's Gull.

Xema Sabini, *Leach*, *Ross's Voy. App.* p. lvii. with fig.; *Steph. Gen. Zool.* xiii. p. 177, pl. 20; *Eyton*, *Cat. Brit. B.* p. 54; *G. R. Gray*, *Gen. of B.* iii. p. 655.
Larus Sabini, *Sabine*, *Linn. Trans.* xii. p. 520, pl. 29; *Jenyns*, *Man. B. Vert. An.* p. 270; *Keys. & Bl. Wirbelth. Eur.* p. 95; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 128; *Temm. Man. d'Orn.* (1840) iv. p. 488.
Gavia Sabini, *Macgill. Man. N. H. Ornith.* ii. p. 241.
Xema collaris, *Leach.*
Sabine's Xeme, *Eyton*, *Hist. R. Brit. B.* p. 64, fig.
Sabine's Gull, *Yarr. Brit. B.* 2 edit. iii. p. 537, fig.
*Gould*, *B. of Eur.* pl. 429.
(Ireland).

## 5. RISSA.

Rissa, *Leach*, *Steph. Gen. Zool.* xiii. p. 180 (1825).
Cheimonea, *Kaup*, *Naturl. Syst. der Eur. Thier.* p. 84 (1829).

### 1. Rissa tridactyla. The Kittiwake Gull.

Larus Rissia, *Linn. S. N.* i. p. 224; *Leach*, *Syst. Cat. Mam. & B. B. M.* p. 40; *Flem. Brit. An.* p. 141.
Larus tridactylus, *Linn. S. N.* i. p. 224; *Temm. Man. d'Orn.* 1815, p. 502; *Jenyns*, *Man. B. Vert. An.* p. 274; *Keys. & Bl. Wirbelth. Eur.* p. 95; *Naum. Vög. Deuts.* (1840) x. p. 322, t. 262; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 126.
Larus gavia, *Pall. Zoogr.* ii. p. 329.
Larus canus, *Pall. Zoogr.* ii. p. 330.
Larus torquatus, *Pall. Zoogr.* ii. p. 328.
Gavia tridactyla, *Boie*, *Isis* (1822), p. 563.
Rissa Brunnichii, *Leach*, *Steph. Gen. Zool.* xiii. p. 181, pl. 21.
Cheimonea tridactyla, *Kaup*, *Naturl. Syst.* p. 84.
Rissa cinerea, *Eyton*, *Cat. Brit. B.* p. 52.
Rissa tridactyla, *Macgill. Man. N. H. Ornith.* ii. p. 250; *G. R. Gray*, *Gen. of B.* iii. p. 655.

Laroides tridactylus, *Brehm*, *Vög. Deuts.* p. 754.
Laroides rissa, *Brehm*, *Vög. Deuts.* p. 755, t. 37, f. 3.
Laroides minor, *Brehm*, *Vög. Deuts.* p. 756.
Kittiwake, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 229, fig.; *Selby*, *Brit. Orn.* ii. p. 493.
Kittiwake Gull, *Penn. Brit. Zool.* (1812) ii. p. 186; *Yarr. Brit. B.* 2 edit. iii. p. 562, fig.
Tarrock Gull, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 231; *Penn. Brit. Zool.* (1812) ii. p. 187.

*Pl. enl.* 253, 387; *Gould*, *B. of Eur.* pl. 435.

*a*. Great Britain. Presented by A. Cooper, Esq., R.A.
*b*. Scotland. From Col. Montagu's collection.
*c*. Yarmouth. Young.
*d*. Hills of Hoy, Orkney. Adult. From Mr. J. Baker's collection.
*e*. Sternum. England. Presented by John Ray, Esq.

## 6. PAGOPHILA.

Pagophila, *Kaup*, *Naturl. Syst. der Eur. Thier.* p. 69 (1829).
Gavia, *Boie*, *Isis* (1822), p. 563.
Cetosparactes, *Macgill. Man. N. H. Ornith.* ii. p. 251 (1842).

### 1. Pagophila eburnea. The Ivory Gull.

Larus eburneus, *Gmel. S. N.* i. p. 596; *Temm. Man. d'Orn.* 1815, p. 498; *Steph. Gen. Zool.* xiii. p. 195; *Jenyns*, *Man. B. Vert. An.* p. 276; *Eyton*, *Cat. Brit. B.* p. 53; *Keys. & Bl. Wirbelth. Eur.* p. 96; *Naum. Vög. Deuts.* (1840) x. p. 341, t. 263; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 126.
Larus niveus, *Mart. Hist. de Spitzb.* t. 4, f. A.
Larus candidus, *Fabr. Faun. Græn.* p. 67; *Flem. Brit. An.* p. 142.
Cetosparactes eburneus, *Macgill. Man. N. H. Ornith.* ii. p. 252.
Pagophila eburnea, *Kaup*, *Naturl. Syst.* p. 69; *G. R. Gray*, *Gen. of B.* iii. p. 655.
Gavia eburnea, *Boie*, *Isis* (1822), p. 563; *Brehm*, *Vög. Deuts.* p. 765.
Gavia nivea, *Brehm*, *Vog. Deuts.* p. 766, t. 38, f. 1.
Ivory Gull, *Selby*, *Brit. Orn.* ii. p. 497; *Yarr. Brit. B.* 2 edit. iii. p. 567, fig.

*Pl. enl.* 994; *Gould*, *B. of Eur.* pl. 436.

(Shetland, Frith of Clyde, and West Coast of Ireland).

## ii. *Sterninæ*.

### 1. STERNA.

Sterna, *Linn. S. N.* (1748).
Gelochelidon, *Brehm, Vög. Deuts.* (1830).
Laropis, *Wagl. Isis* (1832), p. 1225.
Thalasseus, *Boie, Isis* (1822), p. 563.
Actochelidon, *Kaup, Naturl. Syst. der Eur. Thier.* p. 31 (1829).
Hydroprogne, *Kaup, Naturl. Syst. der Eur. Thier.* p. 91 (1829)
Sylochelidon, *Brehm, Vög. Deuts.* (1830).
Helopus, *Wagl. Isis* (1832), p. 1224.
Planetis, *Wagl. Isis* (1832), p. 1222.
Thalassea, *Kaup, Naturl. Syst. der Eur. Thier.* p. 97 (1829).
Sternula, *Boie, Isis* (1822), p. 563.
Haliphana, *Wagl. Isis* (1832), p. 1224.
Onychoprion, *Wagl. Isis* (1832), p. 277.
Pelecanopus, *Wagl. Isis* (1832), p. 277.
Hydrocecropis, *Boie, Isis* (1844), p. 178.

#### a. Thalasseus.

##### 1. Sterna caspia. The Caspian Tern.

Sterna caspia, *Pall. Nov. Comm. Petrop.* xiv. p. 582; *Temm. Man. d'Orn.* 1815, p. 476; *Steph. Gen. Zool.* xiii. p. 145; *Jenyns, Man. B. Vert. An.* p. 264; *Keys & Bl. Wirbelth. Eur.* p. 97; *Naum. Vög. Deuts.* (1840) x. p. 18, t. 248; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 128; *Macgill. Man. N. H. Ornith.* ii. p. 230; *G. R. Gray, Gen. of B.* iii. p. 658.
Sterna Tschegrava, *Lepechin, Nov. Comm. Petrop.* xiv. p. 500, t. 132.
Sterna megarhynchos, *Meyer, Taschenb. Deuts.* ii. p. 457.
Thalasseus caspius, *Boie, Isis* (1822), p. 563.
Hydroprogne caspia, *Kaup, Naturl. Syst.* p. 91.
Sylochelidon caspia, *Brehm, Vög. Deuts.* p. 770.
Sylochelidon balthica, *Brehm, Vög. Deuts.* p. 769.
Sylochelidon Schillingii, *Brehm, Vög. Deuts.* p. 770.
Caspian Tern, *Selby, Brit. Orn.* ii. p. 463; *Eyton, Hist. R. Brit. B.* p. 66, fig.; *Yarr. Brit. B.* 2 edit. iii. p. 493, fig.

*Sparrm. Mus. Carls.* t. 62; *Gould, B. of Eur.* pl. 414.

*a.* British Channel.

2. STERNA VELOX. The Swift Tern.

Sterna velox, *Rupp. Zool. Atlas*, t. 13; *Thompson, Ann. & Mag. Nat. Hist.* 1847, p. 170.

(Sutton, near Dublin).

## b. ACTOCHELIDON.

3. STERNA CANTIACA. The Sandwich Tern.

Sterna cantiaca, *Gmel. S. N.* i. p. 606; *Temm. Man. d'Orn.* 1815, p. 479; *Steph. Gen. Zool.* xiii. p. 147; *Jenyns, Man. B. Vert. An.* p. 265; *Eyton, Cat. Brit. B.* p. 54; *Keys. & Bl. Wirbelth. Eur.* p. 97; *Naum. Vög. Deuts.* (1840) x. p. 51, t. 250; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 129; *G. R. Gray, Gen. of B.* iii. p. 658.

Sterna Boysii, *Lath. Ind. Orn.* ii. p. 806; *Leach, Syst. Cat. Mam. & B. B. M.* p. 41; *Flem. Brit. An.* p. 142; *Macgill. Man. N. H. Ornith.* ii. p. 230.

Sterna nævia, *Bew. Brit. B.* (1804) ii. p. 207.

Sterna stuberica, *Bechst. Naturg. Deuts.* iv. p. 679.

Sterna canescens, *Meyer, Taschenb. Deuts.* ii. p. 458.

Sterna africana, *Gmel. S. N.* i. p. 605.

Sterna nebulosa, *Sparrm. Mus. Carls.* t. 63.

Sterna striata, *Gmel. S. N.* i. p. 609.

Thalasseus cantiacus, *Boie, Isis* (1822), p. 563.

Columba columbina, *Schrank, Fauna Boica*, p. 252.

Actochelidon cantiacus, *Kaup, Naturl. Syst.* p. 31.

Thalasseus canescens, *Brehm, Vög. Deuts.* p. 776.

Thalasseus candicans, *Brehm, Vög. Deuts.* p. 777, t. 38, f. 4.

Sandwich Tern, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 204, fig.; *Penn. Brit. Zool.* (1812) ii. p. 200; *Selby, Brit. Orn.* ii. p. 464; *Yarr. Brit. B.* 2 edit. iii. p. 497, fig.

*Gould, B. of Eur.* pl. 415.

*a*. Great Britain. Adult. Presented by J. G. Children, Esq.
*b*. Kent. From Col. Montagu's collection.
*c*. Scilly Islands. Adult. Presented by D. W. Mitchell, Esq.
*d*. Sternum. England. Presented by T. Ingall, Esq.
*e*. Sternum. England. Presented by John Ray, Esq.

## c. Sterna.

### 4. Sterna paradisea. The Roseate Tern.

Sterna paradisea, *Brünn. Orn. Bor.* p. 46; *Keys. & Bl. Wirbelth. Eur.* p. 97; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 130; *G. R. Gray, Gen. of B.* iii. p. 659.
Sterna Dougallii, *Mont. Orn. Dict. Suppl.* p. ; *Leach, Syst. Cat. Mam. & B. B. M.* p. 41; *Temm. Man. d'Orn.* (1820) ii. p. 738; *Boie, Isis* (1822) p. 363; *Steph. Gen. Zool.* xiii. p. 153; *Flem. Brit. An.* p. 143; *Brehm, Vög. Deuts.* p. 779; *Jenyns, Man. B. Vert. An.* p. 265; *Eyton, Cat. Brit. B.* p. 55; *Naum. Vög. Deuts.* (1840) x. p. 78, t. 251.
Thalassæa Dougalli, *Kaup, Naturl. Syst.* p. 97.
Sterna Macdougalli, *Macgill. Man. N. H. Ornith.* ii. p. 233.
Hydrocecropis Dougallii, *Boie, Isis* (1844) p. 179.
Roseate Tern, *Mont. Orn. Dict. Suppl.* p. , pl. ; *Selby, Brit. Orn.* ii. p. 470; *Yarr. Brit. B.* 2 edit. iii. p. 501, fig.
*Gould, B. of Eur.* pl. 418.

*a*. Frith of Clyde. From Col. Montagu's collection.
*b*. Frith of Clyde. Young. From Col. Montagu's collection.
*c*. Scilly Islands. Presented by James Griffin, Esq.
*d*, *e*. Scilly Islands. Presented by D. W. Mitchell, Esq.

### 5. Sterna hirundo. The Common Tern.

Sterna hirundo, *Linn. S. N.* i. p. 227; *Temm. Man. d'Orn.* 1815, p. 481; *Leach, Syst. Cat. Mam. & B. B. M.* p. 41; *Boie, Isis* (1822) p. 563; *Steph. Gen. Zool.* xii. p. 150, pl. 18; *Flem. Brit. An.* p. 143; *Kaup, Naturl. Syst.* p. 26; *Brehm, Vög. Deuts.* p. 781; *Jenyns, Man. B. Vert. An.* p. 266; *Keys. & Bl. Wirbelth. Eur.* p. 97; *Naum. Vög. Deuts.* (1840) x. p. 89, t. 252; *Macgill. Man. N. H. Ornith.* ii. p. 231; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 129; *G. R. Gray, Gen. of B.* iii. p. 659.
Sterna fluviatilis, *Naum. Isis* (1820) p. ; *Brehm, Vög. Deuts.* p. 779.
Sterna pomarina, *Brehm, Vög. Deuts.* p. 781.
Sterna marina, *Eyton, Cat. Brit. B.* p. 55.
Hydrocecropis hirundo, *Boie, Isis* (1844) p. 179.

Common Tern, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 199, fig.; *Penn. Brit. Zool.* (1813) ii. p. 196; *Selby, Brit. Orn.* ii. p. 468; *Yarr. Brit. B.* 2 edit. iii. p. 504, fig.
Brown Tern, *Mont. Orn. Dict.?*
Brown Gull, *Penn. Brit. Zool.* (1812) ii. p. 193?

*Pl. enl.* 987; *Gould, B. of Eur.* pl. 417.

*a*. Great Britain. Adult. Presented by W. Yarrell, Esq.
*b*. Sussex. From Col. Montagu's collection.
*c*. Sussex. Adult. Presented by W. Yarrell, Esq.
*d*. Scilly Islands. Adult. Presented by D. W. Mitchell, Esq.
*e*. Great Britain. Young.
*f*. Sussex. Young.
*g*, *h*. Two sterna. England. Presented by T. Ingall, Esq.
*i*, *j*. Two sterna. England. Presented by John Ray, Esq.

### 6. Sterna macroura. The Arctic Tern.

Sterna macroura, *Naum. Isis* (1819), p. 1847; *Brehm, Vög. Deuts.* p. 784; *Keys. & Bl. Wirbelth. Eur.* p. 97; *Naum. Vög. Deuts.* (1840) x. p. 114, t. 253; *G. R. Gray, Gen. of B.* iii. p. 659.
Sterna hirundo, *Faber.*
Sterna arctica, *Temm. Man. d'Orn.* (1820) ii. p. 742; *Boie, Isis* (1822), p. 563; *Steph. Gen. Zool.* xiii. p. 152; *Flem. Brit. An.* p. 144; *Kaup, Naturl. Syst.* p. 26; *Brehm, Vög. Deuts.* p. 785; *Jenyns, Man. B. Vert. An.* p. 267; *Eyton, Cat. Brit. B.* p. 54; *Macgill. Man. N. H. Ornith.* ii. p. 232; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 129.
Sterna argentata, *Brehm, Beitr.* iii. p. 692, et *Vog. Deuts.* p. 782, t. 38, f. 5.
Sterna argentacea, *Brehm, Vög. Deuts.* p. 783.
Sterna Nitzschii, *Kaup, Isis* (1824), p. 153; *Brehm, Vög. Deuts.* p. 786.
Sterna brachytarsa, *Graba.?*
Arctic Tern, *Selby, Zool. Journ.* ii. p. 461; *Selby, Brit. Orn.* ii. p. 473; *Eyton, Hist. R. Brit. B.* p. 68, fig.; *Yarr. Brit. B.* 2 edit. iii. p. 507, fig.

*Gould, B. of Eur.* pl. 419.

*a*. Yarmouth.
*b*. Scilly Islands. Presented by D. W. Mitchell, Esq.
*c*. Sternum. England. Presented by John Ray, Esq.

## d. Gelochelidon.

### 7. Sterna anglica. The Gull-billed Tern.

Sterna anglica, *Mont. Orn. Dict. Suppl.* p. ; *Leach, Syst. Cat. Mam. & B. B. M.* p. 41; *Temm. Man. d'Orn.* (1820) ii. p. 745; *Flem. Brit. An.* p. 143; *Jenyns, Man. B. Vert. An.* p. 269; *Eyton, Cat. Brit. B.* p. 54; *Keys. & Bl. Wirbelth. Eur.* p. 98; *G. R. Gray, Gen. of B.* iii. p. 659.
Sterna stubberica, *Otto, Deuts. Ubers. von Buff. Naturg.*
Thalasseus anglicus, *Boie, Isis* (1822), p. 563.
Viralva? anglica, *Steph. Gen. Zool.* xiii. p. 174.
Gelochelidon balthica, *Brehm, Vög. Deuts.* p. 772, t. 38, f. 3.
Gelochelidon agraria, *Brehm, Vög. Deuts.* p. 773.
Gelochelidon meridionalis, *Brehm, Vög. Deuts.* p. 774.
Laropis anglica, *Wagl. Isis* (1832), p. 1225.
Gelochelidon palustris, *Macgill. Man. N. H. Ornith.* ii. p. 237.
Gelochelidon anglica, *Pr. Bonap. Geogr. Comp. List of B.* p. 61; *Boie, Isis* (1844) p. 187.
Sterna risoria, *Brehm, Beitr.* iii. p. 650.
Gull-billed Tern, *Mont. Orn. Dict. Suppl.* p. pl. ; *Selby, Brit. Orn.* ii. p. 480; *Eyton, Hist. R. Brit. B.* p. 97; *Yarr. Brit. B.* 2 edit. iii. p. 515, fig.

*Gould, B. of Eur.* pl. 416.

*a.* Great Britain. From Mr. Bullock's collection.
*b.* Kent. From Col. Montagu's collection.

## e. Sternula.

### 8. Sterna minuta. The Lesser Tern.

Sterna minuta, *Linn. S. N.* i. p. 228; *Temm. Man. d'Orn.* 1815, p. 487; *Leach, Syst. Cat. Mam. & B. B. M.* p. 41; *Steph. Gen. Zool.* xiii. p. 163; *Flem. Brit. An.* p. 144; *Jenyns, Man. B. Vert. An.* p. 267; *Eyton, Cat. Brit. B.* p. 55; *Keys. & Bl. Wirbelth. Eur.* p. 97; *Naum. Vög. Deuts.* (1840) x. p. 145, t. 254; *Macgill. Man. N. H. Ornith.* ii. p. 234; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 130; *G. R. Gray, Gen. of B.* iii. p. 659.
Sterna metopoleucos, *S. G. Gmel. Nov. Comm. Petrop.* xv. p. 475, t. 22.

Sternula minuta, *Boie*, *Isis* (1822) p. 563; *Kaup*, *Naturl. Syst.* p. 95.
Sternula fissipes, *Brehm*, *Vög. Deuts.* p. 790.
Sternula pomarina, *Brehm*, *Vög. Deuts.* p. 791.
Sternula danica, *Brehm*, *Vög. Deuts.* p. 791.
Lesser Tern, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 201, fig.; *Penn. Brit. Zool.* (1812) ii. p. 198, pl. 35, upp. fig.; *Selby*, *Brit. Orn.* ii. p. 475; *Yarr. Brit. B.* 2 edit. iii. p. 519, fig.

*Pl. enl.* 995; *Gould*, *B. of Eur.* pl. 420.

*a*. Sussex. From Col. Montagu's collection.
*b*. Weymouth. Young. From Col. Montagu's collection.
*c*. Great Britain.
*d*. Sternum. England. Presented by John Ray, Esq.

## 2. HYDROCHELIDON.

Hydrochelidon, *Boie*, *Isis* (1822), p. 563.
Viralva, *Leach*, *Steph. Gen. Zool.* xiii. p. 166 (1826).
Pelodes, *Kaup*, *Naturl. Syst. der Eur. Thier.* p. 107 (1829).

### 1. HYDROCHELIDON HYBRIDA. The Whiskered Tern.

Sterna hybrida, *Pall. Zoogr.* ii. p. 338; *Keys. & Bl. Wirbelth. Eur.* p. 98.
Sterna leucopareia, *Natt.*, *Temm. Man. d'Orn.* (1820) ii. p. 746; *Boie*, *Isis* (1822), p. 563; *Naum. Vög. Deuts.* (1840) x. p. 168, t. 255.
Sterna Delamotta, *Vieill. Encyc. Meth.* p. 350.
Viralva leucopareia, *Steph. Gen. Zool.* xiii. p. 171.
Pelodes leucopareia, *Kaup*, *Naturl. Syst.* p. 107.
Hydrochelidon leucopareia, *Boie*; *Brehm*, *Vög. Deuts.* p. 797, t. 39, f. 1.
Hydrochelidon hybrida, *G. R. Gray*, *Gen. of B.* iii. p. 660.
Whiskered Tern, *Yarr. Brit. B.* 2 edit. iii. p. 512, fig.

*Gould*, *B. of Eur.* pl. 424.

(Dorsetshire).

### 2. Hydrochelidon fissipes. The Black Tern.

Sterna fissipes, *Linn. S. N.* i. p. 228.
Sterna nigra, *Briss. Ornith.* vi. p. 211; *Temm. Man. d'Orn.* 1815, p. 484; *Leach, Syst. Cat. Mam. & B. B. M.* p. 41; *Flem. Brit. An.* p. 144; *Jenyns, Man. B. Vert. An.* p. 268; *Eyton, Cat. Brit. B.* p. 55; *Keys. & Bl. Wirbelth. Eur.* p. 98; *Naum. Vög. Deuts.* (1840) x. p. 189, t. 256; *Macgill. Man. N. H. Ornith.* ii. p. 233; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 130.
Hydrochelidon nigra, *Boie, Isis* (1822) p. 563; *Kaup, Naturl. Syst.* p. 109; *Brehm, Vög. Deuts.* p. 793.
Hydrochelidon fissipes, *G. R. Gray, Gen. of B.* iii. p. 660.
Viralva nigra, *Steph. Gen. Zool.* xiii. p. 167.
Sterna nævia, *Linn. S. N.* i. p. 228.
Hydrochelidon nigricans, *Brehm, Vög. Deuts.* p. 794.
Hydrochelidon obscura, *Brehm, Vög. Deuts.* p. 795.
Black Tern, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 203; *Penn. Brit. Zool.* (1812) ii. p. 199; *Selby, Brit. Orn.* ii. p. 477; *Yarr. Brit. B.* 2 edit. iii. p. 523, fig.

*Pl. enl.* 333, 924; *Gould, B. of Eur.* pl. 422.

*a*. Kent.
*b*. Sussex. From Col. Montagu's collection.

### 3. Hydrochelidon nigra. The White-winged Black Tern.

Sterna nigra, *Linn. S. N.* i. p. 227.
Sterna leucoptera, *Meisner, u. Schinz. Vog. d. Schweig.* p. 264; *Temm. Man. d'Orn.* (1820) ii. p. 747; *Naum. Vög. Deuts.* (1840) x. p. 215, t. 257; *Keys. & Bl. Wirbelth. Eur.* p. 98; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 131; *McCoy, Ann. & Mag. Nat. Hist.* 1845, p. 271, fig.
Sterna fissipes, *Pall. Zoogr.* ii. p. 398.
Hydrochelidon leucoptera, *Boie, Isis* (1822) p. 563; *Kaup, Naturl. Syst.* p. 109; *Brehm, Vög. Deuts.* p. 796.
Viralva leucoptera, *Steph. Gen. Zool.* xiii. p. 170.
Hydrochelidon nigra, *G. R. Gray, Gen. of B.* iii. p. 660.
White-winged Black Tern, *Yarr. Brit. B.* 2 edit. iii. p. 527, fig.

*Gould, B. of Eur.* pl. 423.

(Found in most parts of England).

### 3. ANOÜS.

Anoüs, *Leach, Steph. Gen. Zool.* xiii. p. 139 (1825).
Noddi, *Cuv. Règ. An.* (1817) i. p. 521.
Megalopterus, *Boie, Isis* (1826) p. 980.
Stolida, *Less. Tr. d'Orn.* p. 62 (1831).
Gavia, *Swains. Classif. of B.* ii. p. 373 (1837).
Procelsterna, *Lafr. Rev. Zool.* (1841) p. 242.
Nænia, *Boie, Isis* (1844) p.

#### a. ANOÜS.

##### 1. ANOÜS STOLIDUS. The Black Noddy.

Sterna stolida, *Linn. S. N.* i. p. 227; *Jenyns, Man. B. Vert. An.* p. 270; *Schleg. Rev. Crit. des. Ois. d'Eur.* p. 131.
Anoüs niger, *Steph. Gen. Zool.* xiii. p. 140; *Eyton, Cat. Brit. B.* p. 55.
Megalopterus stolidus, *Keys. & Bl. Wirbelth. Eur.* p. 98; *Macgill. Man. N. H. Ornith.* ii. p. 236.
Anoüs stolidus, *G. R. Gray, List of Gen. of B.* (1841), p. 100; *Gen. of B.* iii. p. 661.
Black Noddy, *Eyton, Hist. R. Brit. B.* p. 70, fig.; *Yarr. Brit. B.* 2 edit. iii. p. 531, fig.
*Gould, B. of Eur.* pl. 421.
(Ireland).

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## FAM. VI. PELECANIDÆ.

### i. *PELECANINÆ.*

#### 1. SULA.

Sula, *Briss. Ornith.* vi. p. 494 (1760).
Dysporus, *Ill. Prodr.* p. 279 (1811).
Moris, *Leach, Syst. Cat. Mam. & B. B. M.* (1816).
Morus, *Vieill. Analyse, &c.*, p. 63 (1816).

### 1. Sula bassana. The Gannet.

Pelecanus bassanus, *Linn. S. N.* i. p. 217.
Pelecanus maculatus, *Gmel. S. N.* i. p. 579.
Sula bassana, *Briss.*, *Boie*, *Isis* (1822) p. 563; *Steph. Gen. Zool.* xiii. p. 100, pl. 11; *Flem. Brit. An.* p. 118; *Brehm*, *Vög. Deuts.* p. 813; *Jenyns*, *Man. B. Vert. An.* p. 263; *Eyton*, *Cat. Brit. B.* p. 56; *Keys. & Bl. Wirbelth. Eur.* p. 89; *Macgill. Man. N. H. Ornith.* ii. p. 225; *Schleg. Rev. Crit. des. Ois. d'Eur.* p. 123; *G. R. Gray*, *Gen. of B.* iii. p. 666.
Moris bassana, *Leach*, *Syst. Cat. Mam. & B. B. M.* p. 35.
Sula alba, *Meyer*, *Taschenb. Deuts.* ii. p. 582; *Temm. Man. d'Orn.* 1815, p. 593; *Kaup*, *Naturl. Syst.* p. 68.
Morus bassanus, *Vieill.*
Dysporus bassanus, *Illig. Prodr.* p. 279; *Naum. Vög. Deuts.* (1842) xi. p. 14, t. 278.
Sula major, *Brehm*, *Vög. Deuts.* p. 812.
Gannet, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 393, fig.; *Penn. Brit. Zool.* (1812) ii. p. 286, pl. 48; *Yarr. Brit. B.* 2 edit. iii. p. 489, fig.
Solan Gannet, *Selby*, *Brit. Orn.* ii. p. 455.

*Pl. enl.* 278, 986; *Gould*, *B. of Eur.* pl. 412.

*a*. Devonshire. Adult. From Col. Montagu's collection.
*b*. ——— ? Adult.
*c*. ——— ? In change. From Mr. Bullock's collection.
*d*. Devonshire. Young. From Col. Montagu's collection.
*e*. Shetland Islands.? Adult. From Mr. J. Baker's collection.
*f*, *g*. Two tracheæ. England.
*h*. Sternum. England. Presented by John Ray, Esq.

### 2. GRACULUS.

Graculus, *Linn. S. N.* (1735).
Phalacrocorax, *Briss. Ornith.* vi. p. 511 (1760).
Carbo, *Lacep. Mem. de l'Inst.* (1800—1801).
Halieus, *Ill. Prodr.* p. 279 (1811).
Hydrocorax, *Vieill. Analyse, &c.*, p. 63 (1816).
Gulosus, *Mont. Orn. Dict. App.* (1813).

### 1. Graculus carbo. The Common Corvorant.

Pelecanus carbo, *Linn. S. N.* i. p. 216.
Pelecanus phalacrocorax, *Brünn. Orn. Bor.* p. 31.
Carbo cormoranus, *Meyer, Taschenb. Deuts.* ii. p. 576; *Boie, Isis* (1822), p. 563; *Kaup, Naturl. Syst.* p. 85; *Brehm, Vög. Deuts.* p. 816; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 122.
Halieus carbo, *Illig. Prodr.* p. 279.
Phalacrocorax carbo, *Leach, Syst. Cat. Mam. & B. B. M.* p. 34; *Cuv. Reg. An.* (1817) p. 524; *Steph. Gen. Zool.* xiii. p. 76, pl. 10; *Flem. Brit. An.* p. 117; *Jenyns, Man. B. Vert. An.* p. 262; *Eyton, Cat. Brit. B.* p. 55; *Keys. & Bl. Wirbelth. Eur.* p. 88; *Macgill. Man. N. H. Ornith.* ii. p. 222.
Hydrocorax carbo, *Vieill. N. Dict. d'Hist. Nat.* viii. p. 83.
Graculus carbo, *G. R. Gray, Gen. of B.* iii. p. 667.
Halieus cormoranus, *Naum. Vög. Deuts.* (1842) xi. p. 52, t. 279.
Carbo glacialis, *Brehm, Vög. Deuts.* p. 817.
Carbo arboreus, *Brehm, Vög. Deuts.* p. 818.
Carbo subcormoranus, *Brehm, Vög. Deuts.* p. 819.
Corvorant, *Mont. Orn. Dict.; Bew. Brit. B.* (1804) ii. p. 381, fig.
Common Corvorant, *Penn. Brit. Zool.* (1812) ii. p. 281; *Selby, Brit. Orn.* ii. p. 446; *Yarr. Brit. B.* 2 edit. iii. p. 480, fig.
Crested Corvorant, *Bew. Brit. B.* (1804) ii. p. 388, fig.
*Pl. enl*, 927; *Gould, B. of Eur.* pl. 407.

*a*. Devonshire. From Col. Montagu's collection.
*b*. Pembrokeshire. From Col. Montagu's collection.
*c*. Great Britain.
*d*. Craigs of Hoy, Orkney. Very young. From Mr. J. Baker's collection.
*e*. Skull. England.
*f*, *g*. Two tracheæ. England.
*h*. Sternum. England. Presented by John Ray, Esq.
*i*. Skull. England. Presented by John Ray, Esq.
*j*. Skeleton. England.

### 2. Graculus Linnæii. The Shag.

Pelecanus graculus, *Linn. S. N.* i. p. 217.
Pelecanus cristatus, *Faber, Fauna Grænl.* p.
Carbo cristatus, *Temm. Man. d'Orn.* (1820) ii. p. 900; *Boie, Isis* (1822), p. 563.

Halieus graculus, *Illig. Licht. Cat. Dupl. Berl. Mus.* p. 86; *Naum. Vög. Deuts.* (1842) xi. p. 88, t. 280.
Phalacrocorax graculus, *Leach, Syst. Cat. Mam. & B. B. M.* p. 34; *Cuv. Règ. An.* (1817) i. p. 525; *Flem. Brit. An.* p. 117; *Eyton, Cat. Brit. B.* p. 56; *Keys. & Bl. Wirbelth. Eur.* p. 88.
Hydrocorax graculus, *Vieill. N. Dict. d'Hist. Nat.* viii. p. 87.
Carbo graculus, *Meyer, Taschenb. Deuts.* ii. p. 578; *Brehm. Vög. Deuts.* p. 820, t. 40, f. 2; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 123.
Phalacrocorax cristatus, *Steph. Gen. Zool.* xiii. p. 83; *Flem. Brit. An.* p. 118; *Jenyns, Man. B. Vert. An.* p. 262.
Pelecanus leucogaster, *Vieill.*
Carbo brachyuros, *Brehm, Vög. Deuts.* p. 822.
Graculus Linnæii, *G. R. Gray, Gen. of B.* iii. p. 667.
Shag, *Mont. Orn. Dict.*; *Bew. Brit. B.* (1804) ii. p. 390, fig.; *Penn. Brit. Zool.* (1812) ii. p. 285.
Crested Shag, *Mont. Orn. Dict.*
Crested Corvorant, *Penn. Brit. Zool.* (1812) ii. p. 284, pl. 47.
Crested Shag or Green Cormorant, *Selby, Brit. Orn.* ii. p. 450.
Shag or Green Cormorant, *Yarr. Brit. B.* 2 edit. iii. p. 486, fig.
*Gould, B. of Eur.* pl. 140.

*a*. Scotland.
*b*. Great Britain. Young. From Mr. Turner's collection.
*c*. Great Britain. Female.
*d*, *e*. Craigs of Hoy, Orkney. From Mr. J. Baker's collection.
*f*, *g*. Two tracheæ. England.

## ? 3. PELECANUS.

Pelecanus, *Linn. S. N.* (1735).
Onocrotalus, *Mœhr. Av. Gen.* p. 63 (1752).

### ? 1. Pelecanus onocrotalus. The White Pelican.

Pelecanus onocrotalus, *Linn. S. N.* i. p. 215; *Temm. Man. d'Orn.* 1815, p. 584; *Boie, Isis* (1822) p. 363; *Steph. Gen. Zool.* xiii. p. 109, pl. 12; *Flem. Brit. An.* p. 118; *Kaup, Naturl. Syst.* p. 79; *Brehm, Vög. Deuts.* p. 824, t. 40, f. 1; *Jenyns, Man. B. Vert. An.* p. 264; *Keys. & Bl. Wirbelth. Eur.* p. 89; *Naum. Vög. Deuts.* (1842) xi. p. 150, t. 282; *Schleg. Rev. Crit. des Ois. d'Eur.* p. 122; *G. R. Gray, Gen. of B.* iii. p. 668.

BRITISH MUSEUM

Pelecanus roseus, *Eversm. Addend. ad Zoogr. Rosso-Asiat.* p. 29.
Onocrotalus Phœnix, *Less.*
Pelican, *Mont. Orn. Dict. Suppl.*

*Pl. enl.* 87 ; *Gould. B. of Eur.* pl. 405.

(Horsey Fen ? escaped from the King's Mew ? 1663).

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